

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WYOMING
basic data for thermal springs and wells
as recorded in GEOTHERM

By

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Open-File Report 83-439

This report is preliminary and
has not been reviewed for conformity
with U.S. Geological Survey
editorial standards and stratigraphic
nomenclature. Any use of
trade names is for descriptive
purposes only and does not imply
endorsement by the USGS.

Menlo Park, California

May, 1983

INTRODUCTION

GEOTHERM, a computerized information system now off-line, was used to maintain data on the geology, geochemistry and hydrology of geothermal sites primarily within the United States. The system was proposed at the First Geothermal Implementation Conference in New Zealand in 1974 (Swanson, 1977) and was active until 1983. The primary mission was to provide a broad informational framework for the Geothermal Research Program (Duffield and Guffanti, 1981). GEOTHERM was used to support national geothermal assessments--in 1978 (Muffler, 1979) and 1982 (Reed, 1983). It was however a public system and provided data to both public and private sectors. A detailed discussion on databases in GEOTHERM and a general scheme of how the information system operated can be found in Bliss and Rapport (1983).

This report on Wyoming is one of a series intended to preserve the data collected for GEOTHERM and make the data available to the public. States with significant geochemical data for geothermal fluids will be covered in individual reports such as this. A report will also be issued to cover miscellaneous data collected for sites in the central and eastern United States. The data found in this series is also available as a data file on the internationally-available General Electric Mark III service, a timeshare network. Those interested in accessing that system should contact the Energy Resource Center, University of Oklahoma, Norman, Oklahoma 73070. It is anticipated that a portion of the data will also be available on magnetic tape from the National Technical Information Service, U. S. Department of Commerce, Springfield, VA 22161. It will not be available until after the completion of the open-file series.

GEOThERM INDEXES

Three computer-generated indexes are found in appendices A, B, and C of this report. The indexes give one line summaries of each GEOTHERM record. Each index is sorted by different variables to assist the user in locating geothermal records describing specific sites.

Appendix A (p. 188-194) is sorted by the county name and the name of the source. Also given are latitude, longitude (both in decimal minutes), township, range, section, GEOTHERM record identifier, and temperature ($^{\circ}$ C). In conducting a search of Appendix A, site names are quite useful for locating springs or wells for which a specific name is commonly used, but sites which do not have specific names are more difficult to locate. It is suggested that site titles which begin with words such as warm, hot, unnamed, pumped, well, or spring be checked. Descriptive text found as part of the site name and the site coordinates should be used to assist in determining location.

Appendix B (p. 195-201) is sorted by county, township, range, and section. Also given are name of source, GEOTHERM record identifier, and temperature (°C). Records missing items used for sorting will be listed first.

Appendix C (p. 202-209) is first sorted into one-degree blocks by latitude, and longitude, and then by name of source. Adjacent one-degree blocks which are published as a 1:250,000 map are combined under the appropriate map name. Also given are GEOTHERM record identifier, and temperature (°C). Records missing items used for sorting will be listed first. Numbers with a blank in the same position as zero will be given first.

GEOTHERM SAMPLE FILE

GEOTHERM sample file contains 356 records for Wyoming (Table 1). Records may be present which are duplicates. A record may contain data on location, sample description, analysis type (water, condensate, or gas), collection condition, flow rates, and the chemical and physical properties of the fluid. Stable and radioactive isotopic data are occasionally available. Some records may contain only location and temperature. When sufficient chemical data was available, the charge balance (percentage of difference in anion- and cation-milliequivalents) was computed and added to the record. Many of the numeric fields in the sample file can be directly qualified. The qualifier code precedes the number when appropriate. The codes and their meaning are given in Table 1.

Each thermal spring or well is usually represented by several records. This may document temporal changes in the geothermal fluids. Judgement on what constituted acceptable data was extremely complicated and the primary attempt was to insure that each GEOTHERM record faithfully reproduced the published data. On occasion, glaring inconsistencies or data clearly of poor quality were excluded. Regrettably, no database can be constructed or supported without the introduction of errors. The user, therefore, is advised to check with the published literature whenever possible. Users should carefully and critically evaluate the records they use.

This compilation should contain all of the chemical data for geothermal fluids in Wyoming available as of December, 1981. However, no claim is made for completeness, and published sources have probably been missed. A substantial number of observations for geothermal features in Yellowstone National Park have been omitted. All of the records in this list contains information which was published at the time of data entry. A critically evaluated and corrected list of over 2000 records for the United States was extracted from the sample file and issued as a reference document for the national low-temperature geothermal resource assessment (Reed and others, 1983). This, along with a list of geothermal springs by Berry, and others (1980) may be helpful to some users.

GEO THERM BIBLIOGRAPHY

A bibliography is given in Appendix D (p. 210-211). The abbreviated form of the reference (called code) is identified as the record source in the full record list and is used to sort the entries in this appendix. Codes with a leading "*" identify records based on information which was unpublished at the time the record was prepared.

ACKNOWLEDGMENTS

Contributions and support to GEOTHERM have been made by many in both federal and state agencies. This includes the U.S. Department of Energy (and associated contractors), and U.S. National Oceanic and Atmospheric Administration. Data-entry forms for most sites in Wyoming were prepared by the staff of the University of Wyoming or the U.S. Geological Survey.

REFERENCES CITED

- Berry, G. W., Grim, P. J., and Ikelman, J. A., 1980, Thermal springs list for the United States: National Oceanic and Atmospheric Administration, Key to Geophysical Records Document No. 12, 59 p.
- Bliss, J. D., and Rapport, Amy, 1983, GEOTHERM: the U.S. Geological Survey geothermal information system: Computers & Geosciences, v. 9, no. 1, p. 35-39.
- Duffield, W. A., and Guffanti, Marianne, 1981, The geothermal research program of the U.S. Geological Survey: U.S. Geological Survey Open-File Report 81-564, 108 p.
- Muffler, L. J. P., ed., 1979, Assessment of geothermal resources of the United States--1978: U.S. Geological Survey Circular 790, 163 p.
- Reed, M. J., ed., 1983, Assessment of low-temperature geothermal resources of the United States--1982: U.S. Geological Survey Circular 892.
- Reed, M. J., Mariner, R. H., Brook, C. A., and Sorey, M. L., 1983, Selected data for low-temperature (less than 90°C) geothermal systems in the United States; reference data for U.S. Geological Survey Circular 892: U.S. Geological Survey Open-File Report 83-250, 129 p.
- Swanson, J. R., 1977, GEOTHERM data file: Geothermal Resources Council Transactions, v. 1, p. 285.

TABLE 1

State of Wyoming: computer-generated listing of records describing geothermal-fluid samples. [A few records may be for cold springs or wells--this was to provide ground-water references for some studies.]

ORGANIZATION: Records are sorted by county and then by the name of the spring or well. Order is the same in Appendix A.

UTM: The UTM Easting label was omitted. The UTM Easting figure will be given directly below the Northing label.

QUALIFICATION CODES: All numeric attributes may be qualified. The codes and their meaning:

L = less than

G = greater than

E = estimated

T = trace (no numeric value reported)

N = not detected (not followed by number)

Q = qualified (other data in qualification field)

R = midpoint of range (actual range in qualification field)

REFERENCE: An expanded citation of the reference is found in Appendix D. The abbreviated form used in this table is called "CODE" in the appendix. Unpublished sources are preceded with "*".

RECORD 00001

GEOGRAPHIC SOURCE-FILE

NAME OF SAMPLE SOURCE... LITTLE SHEEP MOUNTAIN SPRING

LOC. ID# 19
COUNTRY..... UNITED STATES
STATE..... WYOMING

COUNTY..... BIG HORN

GOVERNMENT PROVINCE...

MAP REFERENCE... SPENCE 1:24000

SAMPLE DESIGNATION AND CONDITION

DATE/COLLECTOR..... 1977/03/17

TELEPHONIC (C)..... 20.

WATER TESTS

P..... d•3

SPECIFIC CONDUCTANCE.....

TOTAL DISSOLVED SOLIDS.....

CATION TOTALABLE (% DIFF).... 5•7

ANALYSIS IN PPM

Al..... CR..... M

Ca..... 0•02 F..... 0.5

Ht..... FE(tot).....

Ca..... 54. HC03..... 210.

Cl..... 1.5 NO3..... 0.7

CO..... K..... 1.4

OIL & AEROSOL DATA

SULFIDE = 0.001 ppm

REFERENCE AND IDENTIFICATION

COLLECTED BY..... HEASLER, H. P.

COLLECTED AFFILIATION.....

UNIVERSITY OF WYOMING
RECKENRIDGE AND HINCKLEY, 1978
TESTER(C).....

RECORD FILE 101 0075001

GEOGRAPHIC SOURCE-FILE

NAME OF SAMPLE SOURCE... SHEEP MOUNTAIN SPRINGS

LOC. ID# 19
COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... BIG HORN

GOVERNMENT PROVINCE...

MAP REFERENCE...

SAMPLE DESIGNATION AND CONDITION

DATE/COLLECTOR..... 1976/08/16

TELEPHONIC (C)..... 21.

WATER TESTS

OIL & AEROSOL INFORMATION.. TWO OTHER SMALL SPRINGS AT SAME LOCATION.

WATER TESTS

P..... d•1

SPECIFIC CONDUCTANCE.....

TOTAL DISSOLVED SOLIDS.....

CATION TOTALABLE (% DIFF).... 3•6

ANALYSIS IN PPM

Ag..... CO3..... M

S..... L 0.001

LUMINESCESCENCE

GEOGRAPHIC SOURCE-FILE

NAME OF SAMPLE SOURCE... LITTLE SHEEP MOUNTAIN SPRING

LOC. ID# 19
COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... BIG HORN

GOVERNMENT PROVINCE...

MAP REFERENCE...

SAMPLE DESIGNATION AND CONDITION

DATE/COLLECTOR..... 1977/03/17

TELEPHONIC (C)..... 20.

WATER TESTS

P..... d•3

SPECIFIC CONDUCTANCE.....

TOTAL DISSOLVED SOLIDS.....

CATION TOTALABLE (% DIFF).... 5•7

ANALYSIS IN PPM

Ag..... CO3..... M

S..... L 0.001

LUMINESCESCENCE

GEOGRAPHIC SOURCE-FILE

NAME OF SAMPLE SOURCE... LITTLE SHEEP MOUNTAIN SPRING

LOC. ID# 19
COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... BIG HORN

GOVERNMENT PROVINCE...

MAP REFERENCE...

SAMPLE DESIGNATION AND CONDITION

DATE/COLLECTOR..... 1977/03/17

TELEPHONIC (C)..... 20.

WATER TESTS

P..... d•3

SPECIFIC CONDUCTANCE.....

TOTAL DISSOLVED SOLIDS.....

CATION TOTALABLE (% DIFF).... 5•7

ANALYSIS IN PPM

Ag..... CO3..... M

S..... L 0.001

GEOGRAPHIC SOURCE-FILE

NAME OF SAMPLE SOURCE... LITTLE SHEEP MOUNTAIN SPRING

LOC. ID# 19
COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... BIG HORN

GOVERNMENT PROVINCE...

MAP REFERENCE...

SAMPLE DESIGNATION AND CONDITION

DATE/COLLECTOR..... 1977/03/17

TELEPHONIC (C)..... 20.

WATER TESTS

P..... d•3

SPECIFIC CONDUCTANCE.....

TOTAL DISSOLVED SOLIDS.....

CATION TOTALABLE (% DIFF).... 5•7

ANALYSIS IN PPM

Ag..... CO3..... M

S..... L 0.001

LUMINESCESCENCE

Al.....
B..... 0.93
Ca.....
Cl..... 4.7
CO.....
K.....
Mg.....
Na.....
NO3.....
N.....
SiO2.....
SO4.....
HCO3.....
H2O.....
P.....
TFe.....
Total Alkalinity = 1.4

Other Analytical Data... Surface = 0.001 ppm
REFERENCE AND IDENTIFICATION
Sampled by HEASLER, H. P.
Collector Affiliation... UNIVERSITY OF WYOMING
Referees/C RICKENRIDGE AND HINCKLEY, 1978

RECORD 00003

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... SARATOGA HOT SPRINGS, HOBOK POOL

LOCATION..... 17N 084W 13 NW OF NW

COUNTRY..... UNITED STATES

STATE..... WYOMING,

CITY..... CARRIZON

GOVERNMENT PROVINCE..... 41

HIGHEST ALTITUDE..... SARATOGA 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE COLLECTED (C)..... 1976/07/20

REFERENCE (C)..... 48.0

DISCHARGE..... 0.454 L/MIN

Other Sample Information... 5 OTHER HOT SPRINGS AT SAME LOCALE.

NATIVE ANALYSIS

P.....
SPECIFIC CONDUCTANCE..... 12900.

TOTAL DISSOLVED SOLIDS..... 1920.

CAKAGE (ALKALINITY (% OFF))..... 7.9

ALKALINITY IN ppm

CO3..... 24.

CR.....
F.....
FE(II)..... 6.1

HCO3..... 130.

NO3..... N

SiO2.....
SO4.....
H2O.....
Cl.....
K.....
Na.....
Mg.....
NO3.....
N.....
SiO2.....
SO4.....
HCO3.....
H2O.....
P.....
TFe.....
Total Alkalinity = 0.015 ppmOther Analytical Data... Surface = 0.015 ppm
QUANTIFICATION FIELD..... OTHER SPRINGS HAVE TEMPERATURES OF 43, 48, 49, 54, AND 39 DEG C. ALL FLOWS LESS THAN 19 L/MIN.
REFERENCE AND IDENTIFICATION
Sampled by HEASLER, H. P.
Collector Affiliation... UNIVERSITY OF WYOMING
Referees/C RICKENRIDGE AND HINCKLEY, 1978

RECORD 00004

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... SARATOGA HOT SPRINGS, HOBOK POOL

LOCATION..... 17N 084W 13 NW OF NW

COUNTRY..... UNITED STATES

STATE..... WYOMING,

CITY..... CARRIZON

GOVERNMENT PROVINCE..... 41

HIGHEST ALTITUDE..... 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE COLLECTED (C)..... 1976/07/20

REFERENCE (C)..... 48.0

DISCHARGE..... 0.454 L/MIN

Other Sample Information... 5 OTHER HOT SPRINGS AT SAME LOCALE.

NATIVE ANALYSIS

P.....
SPECIFIC CONDUCTANCE..... 12900.

TOTAL DISSOLVED SOLIDS..... 1920.

CAKAGE (ALKALINITY (% OFF))..... 7.9

ALKALINITY IN ppm

CO3..... 24.

CR.....
F.....
FE(II)..... 6.1

HCO3..... 130.

NO3..... N

SiO2.....
SO4.....
H2O.....
Cl.....
K.....
Na.....
Mg.....
NO3.....
N.....
SiO2.....
SO4.....
HCO3.....
H2O.....
P.....
TFe.....
Total Alkalinity = 0.015 ppm

RECORD 00005

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... SARATOGA HOT SPRINGS, HOBOK POOL

LOCATION..... 17N 084W 13 NW OF NW

COUNTRY..... UNITED STATES

STATE..... WYOMING,

CITY..... CARRIZON

GOVERNMENT PROVINCE..... 41

HIGHEST ALTITUDE..... 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE COLLECTED (C)..... 1976/07/20

REFERENCE (C)..... 48.0

DISCHARGE..... 0.454 L/MIN

Other Sample Information... 5 OTHER HOT SPRINGS AT SAME LOCALE.

NATIVE ANALYSIS

GUANGDONG PROVINCE
M.P. GOVERNMENT • SARATOGA 1:240000
YANDUO TOWNSHIP AND LUDIANG
DATE COLLECTOR: 1967/09/16

TEMPERATURE (C) 0.48
WATER SAMPLE INFORMATION. TEMPERATURE FROM 1/20/76 ANALYSIS.

TOTAL DISSOLVED SOLIDS***

ANALYSIS IN PPM
SOLARALTE 1-BALANCE (# DIFF) *** 9.1

ISOTOPES_102002

	CO ₂	K.....
AB.....	CO ₃	74.0
AL.....	CH.....	8.0
Cl.....	F.....	51.3
FE(101).....	FE(101)	504.0
CA.....	CA.....	125.
Cl.....	Cl.....	44.3.

22.

REF ID: GJL-102002 IDENTIFICATION

CAPTURED BY HEASLER, H. P.

CAPTURED AT LOCALITY UNIVERSITY OF WYOMING
REMARKS HOT CREEK AND HINCKLEY, 1978

RECORD 00005

GEOTHERM FILE ID: 0075004

NAME OF SAMPLE SOURCE ... SARATOGA HOT SPRINGS, HOBOK POOL

LOCATION ... UNITED STATES LOWER MOUNTAIN RANGE

COUNTRY ... UNITED STATES 17N UTMW 13 NW OF NW

STATE ... WYOMING

CITY ... CARBON

M.P. GOVERNMENT ... SARATOGA 1:240000

SAMPLE LOCALITY ... SARATOGA 1:240000

DATE COLLECTED ... 1967/09/16

TEMPERATURE (C) 0.48
WATER SAMPLE INFORMATION. TEMPERATURE FROM 1/20/76 ANALYSIS.

TOTAL DISSOLVED SOLIDS*** 1.5

ANALYSIS IN PPM
SOLARALTE 1-BALANCE (# DIFF) *** 1.5

ISOTOPES_102002

	CO ₂	K.....
AB.....	CO ₃	1.3
AL.....	CH.....	9.0
Cl.....	FE(101)	45.0
CA.....	HCuJ.....	504.0
Cl.....	SiJ.....	6.5
CO ₂	K.....	29.

REF ID: GJL-102002 IDENTIFICATION

CAPTURED BY HEASLER, H. P.

CAPTURED AT LOCALITY UNIVERSITY OF WYOMING
REMARKS HOT CREEK AND HINCKLEY, 1978

RECORD 00006

GEOTHERM FILE ID: 0075003

NAME OR LOCATION	SAMPLE SOURCE	SARATOGA HOT SPRINGS, HOBO POOL	LUNDHURST RANGE	CORONIALS	LAT/LUNG	41-27.00 N 106-48.40 W
CONTINENTAL CRUST	UNITED STATES	17N 084W 13	NW OF NW	UIM ZUNT	+13	UIM ZUNT
SILVER	WYOMING			NUTHING	...	45900/6.
CANTERBURY	CARBON			349UB7.		
BALTIMORE PROVINCE						
PROLET FENCE	SARATOGA 1:24000					
SARATOGA_VICINITY AND COUNTRY						
DALE_COTTAGE close	1976/08/06					
HEDDERFORD (C)	44.					
WATER ANIMALS						

WATER AND GAS	100.00	100.00
TANOL VEO SOLUS**	1742.	
COST OF TANOL VEO (\$ DIFF) ***	14.2	
A TOTAL IN PPM		
Al.....	20.	16.3
Al.....		321.
H.....		102.
N.....		104.
O.....		64.

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HEASL, H. P.
UNIVERSITY OF WYOMING
ARTS & SCIENCE AND MONGOLFY, 1978

RECORD 00008

GEOGRAPHIC SAMPLE FILE
 NAME OF SAMPLE SOURCE ••• WYOMING WARM SPRING
 LOCATION COUNTRY ••• UNITED STATES LOWER RANGE 31N 071W 08 SE OF SW
 STAFF ••• WYOMING
 COUNTY ••• CONVERSE
 GEOLOGIC PROVINCE ••• 41
 MAP REFERENCE ••• CHALK DOLMES 1:240000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR ••• 1976/07/29
 TEMPERATURE (C) ••• 30.0
 DISCHARGE ••• 3328. L/MIN
 WATER ANALYSIS

P •••
 SPECIFIC CONDUCTANCE ••• 7.7
 TOTAL DISSOLVED SOLIDS ••• 948.
 Charge balance (% DIFF) ••• 642.
 ANALYSIS IN PPM
 Al •••
 Cr •••
 Fe •••
 Cu •••
 Ca •••
 Cl •••
 Co •••
 H •••
 K •••
 Mg •••
 Na •••
 N •••
 NO3 •••
 SO4 •••
 Other analytical data ••• Sulfate = 1.000 ppm
 Reference value - identification
 Compiled by ••• HASLER, H. P.
 Compiler affiliation ••• UNIVERSITY OF WYOMING
 Reference ••• BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00009

GEOGRAPHIC SAMPLE FILE
 NAME OF SAMPLE SOURCE ••• CONANT CREEK SPRINGS
 LOCATION COUNTRY ••• UNITED STATES LOWER RANGE 33N 094W 26 SE OF SE
 STAFF ••• WYOMING
 COUNTY ••• FREMONT
 GEOLOGIC PROVINCE ••• 41
 MAP REFERENCE ••• BLUE GULCH 1:240000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR ••• 1976/10/08
 TEMPERATURE (C) ••• 16.0
 DISCHARGE ••• 1136. L/MIN
 WATER ANALYSIS

P •••
 SPECIFIC CONDUCTANCE ••• 7.6
 TOTAL DISSOLVED SOLIDS ••• 1430.
 Charge balance (% DIFF) ••• 1100.
 ANALYSIS IN PPM
 Al •••
 Cr •••
 Mg •••
 Na •••

RECORD 00010

GEOGRAPHIC SAMPLE FILE
 NAME OF SAMPLE SOURCE ••• WYOMING WARM SPRING
 LOCATION COUNTRY ••• UNITED STATES LOWER RANGE 42-39.88 N 105-23.62 W
 STAFF ••• WYOMING
 COUNTY ••• CONVERSE
 GEOLOGIC PROVINCE ••• 41
 MAP REFERENCE ••• CHALK DOLMES 1:240000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR ••• 1976/07/29
 TEMPERATURE (C) ••• 30.0
 DISCHARGE ••• 3328. L/MIN
 WATER ANALYSIS

ISOTOPES_10Z001

GEOGRAPHIC SAMPLE FILE
 NAME OF SAMPLE SOURCE ••• WYOMING WARM SPRING
 LOCATION COUNTRY ••• UNITED STATES LOWER RANGE 42-44.02 N 108-03.03 W
 STAFF ••• WYOMING
 COUNTY ••• FREMONT
 GEOLOGIC PROVINCE ••• 41
 MAP REFERENCE ••• BLUE GULCH 1:240000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR ••• 1976/10/08
 TEMPERATURE (C) ••• 16.0
 DISCHARGE ••• 1136. L/MIN
 WATER ANALYSIS

ISOTOPES_10Z001

B..... 0.14 F..... 2.8 NA.... 89. S102. 15.
 HF..... FE(TOT) NB.... 504... 570.
 GA..... 10v. HCO3.... 21v. N
 Cl..... 63. N
 CO..... K..... 16.
 OTHER ANALYTICAL DATA: SULFIDE = 2.2 ppm
 REFERENCE AND IDENTIFICATION
 COMPILED BY HEASLER, H. P.
 COMPILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE RECKENRIDGE AND HINCKLEY, 1978

RECORD 00010

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: FORT WASHAKIE HOT SPRINGS
 LOCATION: LOWNSBURG RANGE
 UNITED STATES: 01S 01W 02 NE OF NE
 COUNTRY: WYOMING
 STATE: FREMONT
 COUNTY: FREMONT
 GEOLOGIC PROVINCE: 41
 MGR REFERENCE: ETHERE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR: 1976/09/20
 TEMPERATURE (C): 44.0
 PRESSURE (PSI): 50H. L/MIN
 WATER ANALYSIS:
 P..... 1.5
 SPECIFIC CONDUCTANCE..... 1090.
 TOTAL DISSOLVED SOLIDS..... 632.
 GARNET IMBALANCE (% DIFF): 3.4
 ANALYSIS IN ppm
 AG..... CO3..... N
 AL..... CR..... MG..... 34.
 AS..... CS..... MN..... L 0.05
 AU..... CU..... 0.01
 R..... F..... 3.8
 HA..... 0.5
 RE..... FE(TOT) N NB.... 41. S102. 32.
 HE..... HCO3.... 260. N
 GA..... HG..... 0.001 PB.... 504... 320.
 CA+Al..... L 0.01
 Cl..... 42.
 CO..... K..... 13. OTHER DATA (ppm): Cd = L .01, Cr = L .1, Se = L .0011, Ag = L .5; Ni = L .1; Sulfide = .5

OTHER ANALYTICAL DATA (ppm): Cd = L .01, Cr = L .1, Se = L .0011, Ag = L .5; Ni = L .1; Sulfide = .5
 REFERENCE AND IDENTIFICATION
 COMPILED BY HEASLER, H. P.
 COMPILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE RECKENRIDGE AND HINCKLEY, 1978

ISOLATES_10/2001

GEOTHERM FILE ID: 0075009
 GEOTHERM FILE ID: 0075009
 COORDINATES
 LAT/LONG... 43-00-48 N 108-50.08 W
 UTM ZONE... +12
 NORTHING... 4763763.
 676478.
 RECORD 00011

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: FORT WASHAKIE HOT SPRINGS
 LOCATION: LOWNSBURG RANGE
 UNITED STATES: 01S 01W 02 NE OF NE
 COUNTRY: WYOMING
 STATE: FREMONT
 COUNTY: FREMONT
 GEOLOGIC PROVINCE: 41
 MGR REFERENCE: ETHERE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR: 1976/09/20
 TEMPERATURE (C): 44.0
 PRESSURE (PSI): 50H. L/MIN
 WATER ANALYSIS:
 P..... 1.5
 SPECIFIC CONDUCTANCE..... 1090.
 TOTAL DISSOLVED SOLIDS..... 632.
 GARNET IMBALANCE (% DIFF): 3.4
 ANALYSIS IN ppm
 AG..... CO3..... N
 AL..... CR..... MG..... 34.
 AS..... CS..... MN..... L 0.05
 AU..... CU..... 0.01
 R..... F..... 3.8
 HA..... 0.5
 RE..... FE(TOT) N NB.... 41. S102. 32.
 HE..... HCO3.... 260. N
 GA..... HG..... 0.001 PB.... 504... 320.
 CA+Al..... L 0.01
 Cl..... 42.
 CO..... K..... 13. OTHER DATA (ppm): Cd = L .01, Cr = L .1, Se = L .0011, Ag = L .5; Ni = L .1; Sulfide = .5

GEOTHERM FILE ID: 0075010
 GEOTHERM FILE ID: 0075010
 COORDINATES
 LAT/LONG... 43-00-48 N 108-50.08 W
 UTM ZONE... +12
 NORTHING... 4763763.

GEOLOGIC PROVINCE... MAP REFERENCE... ETHETE 1:24000
 SAMPLE DESCRIPTION... AND CONDYLLOIDS
 DATE/COLLECTOR... 1945/05/18
 TEMPERATURE (C)... 46.5
 WATER ANALYSIS
 PH... 7.3
 SPECIFIC CONDUCTANCE...
 ANALYSIS IN PPM
 TOTAL DISSOLVED SOLIDS... 1180.
 AL... CR..... MG... 41.
 B... F..... NA... 49.
 HF... FE(TOT)... NH... 502.
 CA... 162. HC03.... NO3... 504..
 CL... 41. NO3... 362.
 DIFFERENCE AND AUTHENTICATION
 COMPILED BY... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE... RECKENRIDGE AND HINCKLEY, 1978

67647B.

RECORD 00012

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... FORT WASHAKIE HOT SPRINGS
 LOCATION TOWNSHIP RANGE
 COUNTRY... UNITED STATES 01S 001W 02 NE OF NE
 STATE... WYOMING
 COUNTY... FREMONT
 GEOLOGIC PROVINCE... MAP REFERENCE... ETHETE 1:24000
 SAMPLE DESCRIPTION... AND CONDYLLOIDS
 DATE/COLLECTOR... 1926/09/00
 TEMPERATURE (C)... 44.5
 WATER ANALYSIS
 TOTAL DISSOLVED SOLIDS... 1006.
 CONDYLE IN BALANCE (% DIFF)... 1.3
 ANALYSIS IN PPM
 AL... CR..... MG... 36.
 B... F..... NA... 43.
 HF... FE(TOT)... NH... 502.
 CA... 160. HC03.... NO3... 504..
 CL... 43. NO3... 363.
 DIFFERENCE AND AUTHENTICATION
 COMPILED BY... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00013

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... JAKEYS FORK SPRING
 LOCATION TOWNSHIP RANGE
 COUNTRY... UNITED STATES 41N 106W 29 SE OF NW
 STATE... WYOMING
 COUNTY... FREMONT

RECORD 00014

GEOTHERM FILE ID: 0075012

COORDINATES
 LAT/LONG... 41-29-38 N 109-36-48 W
 UTM ZONE... 12
 NORTHING... 4815919.

6) GEOLOGIC PROVINCE... 41

MAP REFERENCE..... TORREY LAKE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1977/05/26

TEMPERATURE (C)..... 20.0

DISCHARGE..... 15. L/MIN

WATER ANALYSIS

P.....

SPECIFIC CONDUCTANCE..... 7.02

TOTAL DISSOLVED SOLIDS..... 1040.

CHARGE/LOADING (% DIFF).... 0.4%

ANALYSIS IN PPM

AS.....

AL.....

H.....

HE.....

CA.....

CL.....

CO.....

C.....

N.....

O.....

S.....

T.....

U.....

V.....

W.....

X.....

Y.....

Z.....

LSDIOPES_L02001

612558.

612558.

MAP REFERENCE.....

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1977/05/26

TEMPERATURE (C)..... 20.0

DISCHARGE..... 15. L/MIN

WATER ANALYSIS

P.....

SPECIFIC CONDUCTANCE..... 7.02

TOTAL DISSOLVED SOLIDS..... 1040.

CHARGE/LOADING (% DIFF).... 0.4%

ANALYSIS IN PPM

AS.....

AL.....

H.....

HE.....

CA.....

CL.....

CO.....

C.....

N.....

O.....

S.....

T.....

U.....

V.....

W.....

X.....

Y.....

Z.....

6) OTHER SAMPLE FILE

NAME OF SAMPLE SOURCE... LITTLE WARM SPRING

LOCATION..... IOWNSHIRE RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... FREMONT

GEOLOGIC PROVINCE...

MAP REFERENCE.....

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1977/05/26

TEMPERATURE (C)..... 20.0

WATER ANALYSIS

A' ANALYSIS

AS..... L 0.05

AL.....

H.....

HE.....

CA.....

CL.....

CO.....

C.....

N.....

O.....

S.....

T.....

U.....

V.....

W.....

X.....

Y.....

Z.....

OTHER ANALYTICAL DATA..... OTHER DATA (PPM): CD = L .001; CR = ZN... SE = L .001; NI = L .01

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPILED AFFILIATION..... UNIVERSITY OF WYOMING

REFERENCE AND HINCKLEY, 1978

RECORD 00014

GEOTHERM FILE ID: 0075014

COORDINATES

LAT/LONG... 43-31.22 N 109-40.00 W

UTM ZONE... 12

NORTHING... 4819247.

ELEVATION... 697760.

LSDIOPES_L02001

PAGE 0008

RECORD 00015

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LITTLE WARM SPRING,
LOCATION
COUNTRY... UNITED STATES
STAFF... WYOMING
CITY... FREMONT
GEOLOGIC PROVINCE... 41
MAP REFERENCE...
SAMPLE DESCRIPTION...
DATE/COLLECTOR... DURRIS 1:24000
TEMPERATURE (C)... 1976/09/20
DISCHARGE... 25.0
WATER ANALYSIS

P...
SPECIFIC CONDUCTANCE... 7.4
TOTAL DISSOLVED SOLIDS... 989.
CHARGE BALANCE (% DIFF)... 0.34.
ANALYSIS IN PPM
AG...
AL...
H...
CA...
CL...
CO...
OIL/R ANALYTICAL DATA... SULFIDE = L 6.001 ppm
REFERENCE AND INSTITUTION

COMPILED BY... HEASLER, H. P.
COLLECTOR AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE... HECKENRIDGE AND HINCKLEY, 1978

COORDINATES
LAT/LONG... 43-31-22 N 109-40.00 W
UTM ZONE... +12
NORTHING... 4819247.
697760.

LUMINESCES_10/2001

MG...
NA...
NB...
NO3...
0.4

K...
6.1

SWEETWATER STATION SPRING NO. 1
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
CITY... FREMONT
GEOLOGIC PROVINCE...
MAP REFERENCE...
SAMPLE DESCRIPTION...
DATE/COLLECTOR... HAPPY SPRING 1:24000
TEMPERATURE (C)... 1976/10/07
DISCHARGE... 30.0
WATER ANALYSIS

P...
SPECIFIC CONDUCTANCE... 7.8
TOTAL DISSOLVED SOLIDS... 1180.
CHARGE BALANCE (% DIFF)... 746.
ANALYSIS IN PPM

CU3... N
CR...
MG...
22.

RECORD 00016

GEOTHERM FILE 101 0075017

NAME OF SAMPLE SOURCE... SWEETWATER STATION SPRING NO. 1
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
CITY... FREMONT
GEOLOGIC PROVINCE...
MAP REFERENCE...
SAMPLE DESCRIPTION...
DATE/COLLECTOR... HAPPY SPRING 1:24000
TEMPERATURE (C)... 1976/10/07
DISCHARGE... 30.0
WATER ANALYSIS

P...
SPECIFIC CONDUCTANCE... 7.8
TOTAL DISSOLVED SOLIDS... 1180.
CHARGE BALANCE (% DIFF)... 746.
ANALYSIS IN PPM

CU3... N
CR...
MG...
22.

LUMINESCES_10/2001

COORDINATES
LAT/LONG... 42-29-53 N 108-10.25 W
UTM ZONE... +12
NORTHING... 4708088.
732506.

H. 0.54 F 1.6 NA.... 130. SI02. 28.
 HF FE (10T) NB....
 CA HC03..... 230. N
 CL 100.

OTHER ANALYTICAL DATA: SULFIDE = 0.16 ppm
 DIFFERENCE AND IDENTIFICATION
 COMPILED BY: HEASLER, H. P.
 COMPILE AFFILIATION: UNIVERSITY OF WYOMING
 REFERENCE: BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00017

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: SWEETWATER STATION SPRING NO. 2
 LOCATION: TOWNSHIP-BRANGE
 COUNTRY: UNITED STATES
 STATE: WYOMING
 COUNTY: FREMONT
 GEOLOGIC PROVINCE:
 MAP REFERENCE:
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR: 1965/08/18
 TEMPERATURE (C): 31.5
 WATER ANALYSIS
 PH: 7.7
 SPECIFIC CONDUCTANCE: 1140.
 TOTAL DISSOLVED SOLIDS: 695.
 CHARGE BALANCE (% DIFF): 1.1
 ANALYSIS IN ppm
 AL..... CR..... MG.... 26. SI02. 27.
 H..... 0.4 Fe..... NB....
 HF..... FE (10T) 1.6 SI02. 27.
 CA..... 62. HC03..... 200. N
 CL..... 119.

COMIFICATION FIELD: TEMPERATURE FROM 10/7/76 ANALYSIS.
 DIFFERENCE AND IDENTIFICATION
 COMPILED BY: HEASLER, H. P.
 COMPILE AFFILIATION: UNIVERSITY OF WYOMING
 REFERENCE: BRECKENRIDGE AND HINCKLEY, 1978

GEOTHERM FILE ID: 0075019

COORDINATES
 LAT/LONG: 42-29-53 N 108-10-25 W
 UTM ZONE: +12
 NORTHING: 4708088.
 732506.

ISOTOPES_LQZ001

AL.....	CR.....	MG....	26.	SI02. 27.
H.....	Fe.....	NB....	126.	SI02. 27.
HF.....	FE (10T)	1.6		
CA.....	HC03.....	200.		
CL.....		N		

COMIFICATION FIELD: TEMPERATURE FROM 10/7/76 ANALYSIS.
 DIFFERENCE AND IDENTIFICATION
 COMPILED BY: HEASLER, H. P.
 COMPILE AFFILIATION: UNIVERSITY OF WYOMING
 REFERENCE: BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00018

GEOTHERM FILE ID: 0075018

COORDINATES
 LAT/LONG: 42-29-53 N 108-10-25 W
 UTM ZONE: +12
 NORTHING: 4708088.
 732506.

COMIFICATION FIELD: TEMPERATURE FROM 10/7/76 ANALYSIS.
 DIFFERENCE AND IDENTIFICATION
 COMPILED BY: HEASLER, H. P.
 COMPILE AFFILIATION: UNIVERSITY OF WYOMING
 REFERENCE: BRECKENRIDGE AND HINCKLEY, 1978

COMIFICATION FIELD: TEMPERATURE FROM 10/7/76 ANALYSIS.
 DIFFERENCE AND IDENTIFICATION
 COMPILED BY: HEASLER, H. P.
 COMPILE AFFILIATION: UNIVERSITY OF WYOMING
 REFERENCE: BRECKENRIDGE AND HINCKLEY, 1978

WATER ANALYSIS
 P.H. 7.9
 SPECIFIC CONDUCTANCE 1100.
 TOTAL DISSOLVED SOLIDS 674.
 CHARGE IMBALANCE (% DIFF) 0.4
 ANALYSIS IN ppm
 AG..... CO₃..... N
 Al..... CR.....
 H..... 6.026 F..... 1.6
 Fe..... FE(TOT)
 Ca..... HCO₃..... 230.
 Cl..... 120.
 CO..... K..... 15.
 OTHER ANALYTICAL DATA. SULFIDE = 0.66 PPM
 REFERENCE AND IDENTIFICATION
 COMPILED BY H. P. HEASLER, H. P.
 COMPTILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE RUCKENRIDGE AND HINCKLEY, 1978

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE WARM SPRING CREEK SPRINGS
 LOCATION TOWNSHIP-BRANGE 42N 107W 32 SW OF NW

COUNTRY UNITED STATES WYOMING
 STATE FREMONT
 COUNTY
 GEOLOGIC PROVINCE
 M.D. REFERENCE VARIOUS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR 1965/09/21
 TEMPERATURE (C) 0.29.

WATER ANALYSIS
 P.H. 8.0
 SPECIFIC CONDUCTANCE 937.
 TOTAL DISSOLVED SOLIDS 547.
 CHARGE IMBALANCE (% DIFF) 1.3
 ANALYSIS IN ppm

AG..... CO₃..... N
 Al..... CR.....
 H..... 0.11 F..... 1.2
 Fe..... FE(TOT)
 Ca..... HCO₃..... 479.
 Cl..... 24.
 CO..... K..... 7.0

QUALIFICATION FIELD TEMPERATURE FROM 9/21/76 ANALYSIS.
 REFERENCE AND IDENTIFICATION
 COMPILED BY H. P. HEASLER, H. P.
 COMPTILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE RUCKENRIDGE AND HINCKLEY, 1978

ISOTOPE DATA

AG..... CO₃..... N
 Al..... CR.....
 H..... 6.026 F..... 1.6
 Fe..... FE(TOT)
 Ca..... HCO₃..... 230.
 Cl..... 120.

CO..... K..... 15.
 OTHER ANALYTICAL DATA. SULFIDE = 0.66 PPM
 REFERENCE AND IDENTIFICATION
 COMPILED BY H. P. HEASLER, H. P.
 COMPTILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE RUCKENRIDGE AND HINCKLEY, 1978

RECORD 00019

GEOTHERM FILE ID: 0075016

COORDINATES
 LAT/LONG 43-33-60 N 109-43-88 W
 UTM ZONE +12
 NORTHING 4823571.
 602466.

ISOTOPE DATA

AG..... CO₃..... N
 Al..... CR.....
 H..... 0.11 F..... 1.2
 Fe..... FE(TOT)
 Ca..... HCO₃..... 479.
 Cl..... 24.
 CO..... K..... 7.0

QUALIFICATION FIELD TEMPERATURE FROM 9/21/76 ANALYSIS.
 REFERENCE AND IDENTIFICATION
 COMPILED BY H. P. HEASLER, H. P.
 COMPTILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE RUCKENRIDGE AND HINCKLEY, 1978

RECORD 00020

GEOTHERM FILE ID: 0075015

COORDINATES

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE WARM SPRING CREEK SPRINGS
 LOCATION TOWNSHIP-BRANGE

COUNTRY..... UNITED STATES 42N 107W 32 SW OF NW
 STATE..... WYOMING LAT/LONG... 43-33-60 N 109-43-88 W
 COUNTY..... FREMONT UTM ZONE... +12
 GEOLOGIC PROVINCE... 41 NORTHING... 4823571.
 MAP REFERENCE... DUBOIS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1976/09/21

TEMPERATURE (C)... 29.0

DISCHARGE (L/MIN)... 503.

WATER ANALYSIS

PH... 7.1

SPECIFIC CONDUCTANCE... 922.

TOTAL DISSOLVED SOLIDS... 578.

CHARGE BALANCE (% DIFF)... 12.5

ANALYSIS IN PPM

AG... CO₃..... N

AL... CR.....

H... F..... 1.1

HE (TOT)... NH₄...CA... HC₀₃..... 500.CL... NO₃...

CO..... N

K... 6.5

OTHER ANALYTICAL DATA... SULFIDE = 0.009 PPM

REFERENCE AND IDENTIFICATION

COMPILED BY... H. P.

COMPLIER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE... BRECKENRIDGE AND MINCKLEY, 1978

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... BATHTUB SPRING

LOCATION COUNTRY..... UNITED STATES TOWNSHIP RANGE 43N 95W 25 SE OF SE

STATE..... WYOMING

COUNTY..... HOT SPRINGS

GEOLOGIC PROVINCE... 41

MAP REFERENCE... THERMOPOLIS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1976/09/02

TEMPERATURE (C)... 53.0

DISCHARGE (L/MIN)... 7.6

WATER ANALYSIS

PH... 7.1

SPECIFIC CONDUCTANCE... 3090.

TOTAL DISSOLVED SOLIDS... 2330.

CHARGE BALANCE (% DIFF)... 5.1

ANALYSIS IN PPM

AG... CO₃..... N

AL... CR.....

H... F..... 4.2

HE (TOT)... NH₄...CA... HC₀₃..... 73v.CL... NO₃...

CO..... N

K... 44.

OTHER ANALYTICAL DATA... SULFIDE = .001 PPM

LAT/LONG... 43-33-60 N 109-43-88 W
 UTM ZONE... +12
 NORTHING... 692460.

ISOTOPES (04001)

RECORD 00021

GEOTHERM FILE ID: 0075025

NAME OF SAMPLE SOURCE... BATH TUB SPRING

LOCATION COUNTRY..... UNITED STATES TOWNSHIP RANGE 43N 95W 25 SE OF SE

STATE..... WYOMING

COUNTY..... HOT SPRINGS

GEOLOGIC PROVINCE... 41

MAP REFERENCE... THERMOPOLIS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1976/09/02

TEMPERATURE (C)... 53.0

DISCHARGE (L/MIN)... 7.6

WATER ANALYSIS

PH... 7.1

SPECIFIC CONDUCTANCE... 3090.

TOTAL DISSOLVED SOLIDS... 2330.

CHARGE BALANCE (% DIFF)... 5.1

ANALYSIS IN PPM

AG... CO₃..... N

AL... CR.....

H... F..... 4.2

HE (TOT)... NH₄...CA... HC₀₃..... 73v.CL... NO₃...

CO..... N

K... 39.

OTHER ANALYTICAL DATA... SULFIDE = .001 PPM

ISOTOPES (04001)

RECORD 00021

GEOTHERM FILE ID: 0075025

NAME OF SAMPLE SOURCE... BATH TUB SPRING

LOCATION COUNTRY..... UNITED STATES TOWNSHIP RANGE 43N 95W 25 SE OF SE

STATE..... WYOMING

COUNTY..... HOT SPRINGS

GEOLOGIC PROVINCE... 41

MAP REFERENCE... THERMOPOLIS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1976/09/02

TEMPERATURE (C)... 53.0

DISCHARGE (L/MIN)... 7.6

WATER ANALYSIS

PH... 7.1

SPECIFIC CONDUCTANCE... 3090.

TOTAL DISSOLVED SOLIDS... 2330.

CHARGE BALANCE (% DIFF)... 5.1

ANALYSIS IN PPM

AG... CO₃..... N

AL... CR.....

H... F..... 4.2

HE (TOT)... NH₄...CA... HC₀₃..... 73v.CL... NO₃...

CO..... N

K... 39.

OTHER ANALYTICAL DATA... SULFIDE = .001 PPM

ISOTOPES (04001)

REFERENCE AND IDENTIFICATION
 COMPILED BY H. P. MEASLER
 COMPILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00022

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... RIG SPRING
 LOCATION UNITED STATES LONSHIPE RANGE 43N 094W 31 SW OF NW
 COUNTRY WYOMING HOT SPRINGS
 STATE HOT SPRINGS
 COUNTY
 GEOLOGIC PROVINCE
 MAP REFERENCE
 SAMPLE DESCRIPTION AND CONDITIONS THERMOPOLIS 1:24000
 DATE/COLLECTOR 1958/04/11
 TEMPERATURE (C) Q 56.
 WATER ANALYSIS
 PH 6.4
 SPECIFIC CONDUCTANCE 3150.
 TOTAL DISSOLVED SOLIDS 2280.
 CHARGE IMBALANCE (% DIFF) 1.8
 ANALYSIS IN PPM
 AG CO3 N
 AL CR NA 67.
 B F 3.0
 RE FE(TOT) NB 280. S102.
 CA 380. HC03 NO3 N 504. 40.
 CL 314.
 CO K 53.
 QUANIFICATION FIELD
 REFERENCE AND IDENTIFICATION
 COMPILED BY H. P. MEASLER
 COMPILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00022

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... RIG SPRING
 LOCATION UNITED STATES LONSHIPE RANGE 43N 094W 31 SW OF NW
 COUNTRY WYOMING HOT SPRINGS
 STATE HOT SPRINGS
 COUNTY
 GEOLOGIC PROVINCE
 MAP REFERENCE
 SAMPLE DESCRIPTION AND CONDITIONS THERMOPOLIS 1:24000
 DATE/COLLECTOR 1958/04/11
 TEMPERATURE (C) 56.0
 DISCHARGE
 WATER ANALYSIS
 PH 6.4
 SPECIFIC CONDUCTANCE 2960.
 TOTAL DISSOLVED SOLIDS 2140.
 CHARGE IMBALANCE (% DIFF) 1.3

RECORD 00023

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... RIG SPRING
 LOCATION UNITED STATES LONSHIPE RANGE 43N 094W 31 SW OF NW
 COUNTRY WYOMING HOT SPRINGS
 STATE HOT SPRINGS
 COUNTY
 GEOLOGIC PROVINCE
 MAP REFERENCE
 SAMPLE DESCRIPTION AND CONDITIONS THERMOPOLIS 1:24000
 DATE/COLLECTOR 1976/09/02
 TEMPERATURE (C) 56.0
 DISCHARGE
 WATER ANALYSIS
 PH 6.4
 SPECIFIC CONDUCTANCE 2960.
 TOTAL DISSOLVED SOLIDS 2140.
 CHARGE IMBALANCE (% DIFF) 1.3

RECORD 00023

GEOTHERM FILE ID# 0075032
 LAT/LONG... 43-39.27 N 108-11.62 W
 UTM ZONE... +12
 NORTHING... 4837112.
 726308.

GEOTHERM FILE ID# 0075030
 LAT/LONG... 43-39.27 N 108-11.62 W
 UTM ZONE... +12
 NORTHING... 4837112.
 726308.

ANALYSIS IN PPM

Al	L 0.5	CO ₃ N	L 1.00	Mg.....	S.....	0.006
Al		CR..... L 0.1		Mn.....	L 0.05	
As	L 0.05	CS.....		Mg.....	SE... 0.001	
Au		CU..... L 0.01		Na.....	SI02. 37.	
H	G.54	F..... 6.8				
HA	L 0.5	FE(TOT) N	Nd....			
HF		GE.....	Ni....			
HR		HCO ₃ 710.	NO ₃ N			
CA	310.	HG..... 0.001	Pb.... L 0.1			
CA+Mg						
CD	L 0.01					
CL	309.					
CO		K..... 37.	ZN... L 0.02			

QUALIFICATION FIELD..... IRREGULAR FLOW LAST 8 YEARS VARYING FROM 8630 TO 12011 L/MIN. ALL REPORTED TEMPERATURES 56

**TO 57 DEG C.
REFERENCE AND IDENTIFICATION**

**COMPILED BY..... H. P.
COMPTER AFFILIATION..... UNIVERSITY OF WYOMING
REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978**

RECORD 00024

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BIG SPRING

LOCATION COUNTRY..... UNITED STATES STATE..... WYOMING COUNTY..... HOT SPRINGS

GEOLOGIC PROVINCE.....

MAP REFERENCE.....

SAMPLE DESCRIPTION AND CONFINING

DATE/COLLECTOR..... 1906/00/00

TEMPERATURE (C)..... Q 56.

WATER ANALYSIS

ANALYSIS IN PPM

Al		CR.....	Mg....	11.3.	I02.	40.
H		F.....	Na....	83.	S04..	56.
HF		FE(TOT)	Nd....			
CA	315.					
CL	84.					

**CO..... K..... 91.
QUALIFICATION FIELD..... TEMPERATURE FROM 9/2/76 ANALYSIS.
REFERENCE AND IDENTIFICATION**

COMPILED BY..... H. P.

COMPTER AFFILIATION..... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00025

GEOTHERM FILE ID: 0075034
NAME OF SOURCE... BIG SPRING

LOCATION COUNTRY..... UNITED STATES STATE..... WYOMING COUNTY..... HOT SPRINGS

**COORDINATES LAT/LONG... 43-39.27 N 108-11.62 W
UTM ZONE... +12
NORTHING... 4837112.
726308.**

ISOLOPES 10/2002

GEOTHERM FILE ID: 0075035

**COORDINATES LAT/LONG... 43-39.27 N 108-11.62 W
UTM ZONE... +12
NORTHING... 4837112.
726308.**

ISOLOPES 10/2002

RECORD 00025

GEOTHERM FILE ID: 0075034
NAME OF SOURCE... BIG SPRING

LOCATION COUNTRY..... UNITED STATES STATE..... WYOMING COUNTY..... HOT SPRINGS

**COORDINATES LAT/LONG... 43-39.27 N 108-11.62 W
UTM ZONE... +12
NORTHING... 4837112.**

GEOLoGIC PROVINCE... MAP REFERENCE... THERMOPOLIS 1:240000
SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1926/00/00

TEMPERATURE (C)... 0 56.

DISCHARGE..... 10516. L/MIN

WATER ANALYSIS

ANALYSIS IN PPM

AL...	CR.....	Mg....	113.
H...	F.....	NA....	258.
HF...	FE(TOT)	NB....	\$102.
CA...	...	...	\$04..
CL...	315.		40.
CO...	K.....		556.

QUALIFICATION FIELD AND IDENTIFICATION

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPLIER AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00026

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... BIG SPRING
LOCATION

UNITED STATES 43N 094W 31 SW OF NW

STATE... WYOMING

COUNTY... HOT SPRINGS

GEOLoGIC PROVINCE... THERMOPOLIS 1:240000

MAP REFERENCE... 1926/00/00

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1923/06/12

TEMPERATURE (C)... 0 56.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 2373.

CHARGE BALANCE (% DIFF)... 0.3

ANALYSIS IN PPM

AL...	CR.....	Mg....	76.
H...	F.....	NA....	262.
HF...	FE(TOT)	NB....	\$102.
CA...	385.	HCUS...	\$04..
CL...	...	766.	38.
CO...	328.	H2S.....	4.5

QUALIFICATION FIELD AND IDENTIFICATION

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPLIER AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00027

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... BIG SPRING
LOCATION

UNITED STATES 43N 094W 31 SW OF NW

GEOLoGIC PROVINCE... LAT/LONG... 43-39-27 N 108-11-02 W
UTM ZONE... +12
NORTHING... 4837112.
726308.

726308.

GEOTHERM FILE ID: 0075031

GEOLoGIC PROVINCE... LAT/LONG... 43-39-27 N 108-11-02 W
UTM ZONE... +12

ISOTOPES 10001

ISOTOPES 10001

GEOTHERM FILE ID: 0075033

GEOLoGIC PROVINCE... LAT/LONG... 43-39-27 N 108-11-02 W
UTM ZONE... +12
NORTHING... 4837112.
726308.

QUALIFICATION FIELD AND IDENTIFICATION

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPLIER AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00027

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... BIG SPRING
LOCATION

UNITED STATES 43-39-27 N 108-11-02 W

STATE WYOMING
 COUNTRY HOT SPRINGS
 G-OLOGIC PROVINCE

MAP REFERENCE..... THERMOPOLIS 1:240000

SAMPLE DESCRIPTION..... TOTAL DISSOLVED SOLIDS AND CONDITIONS

DATE / CONDUCTOR 1971/02/24

TEMPERATURE (C) 45.6.

WATER ANALYSIS

P.H. 7.0 J.

SPECIFIC CONDUCTANCE..... 2860.

TOTAL DISSOLVED SOLIDS..... 2290.

CARBONATE BALANCE (% DIFF)

ANALYSIS IN PPM

AL..... CO₃..... N

AL..... CR..... N

Ca..... 0.01 H..... 5.5

Ca..... HCO₃(TOT)

Ca..... HCO₃..... 0.04

Cl..... 36.0 HCO₃..... 70.0

Cl..... 294. N

K..... K..... 51.

QDAW IDENTIFICATION FIELD..... TEMPERATURE FROM 9/2/76 ANALYSIS.

QDAW FIELD ID..... HEASLER, H. P.

COMPUTER AFFILIATION..... UNIVERSITY OF WYOMING

REFERENCE..... HICKENBRIDGE AND HINCKLEY, 1978

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 2990.

TOTAL DISSOLVED SOLIDS..... 2378.

CARBONATE BALANCE (% DIFF)

ANALYSIS IN PPM

AL..... CR..... N

Al..... H..... 3.8

Al..... H(TOT)

Ca..... HCO₃..... 0.05

Ca..... H₂S..... 74.0

Cl..... 1.4

Cl..... 334.

K..... 49.

QDAW IDENTIFICATION FIELD..... TEMPERATURE FROM 9/2/76 ANALYSIS.

QDAW WAS NO FLOW

REF ID: AID-124014 IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

UTM ZONE.... 412
 NORTHING.... 4837112.
 72630d.

ISOLUTES_LQZ001

RECORD 00028

GEOTHERM FILE ID: 0075029

COORDINATES

LAT/LONG..... 43-39-32 N 108-11-63 W

UTM ZONE.... 412

NORTHING.... 4837204.

726291.

ISOLUTES_LQZ001

UTM ZONE.... 412
 NORTHING.... 4837112.
 72630d.

IN 1925 THIS SPRING FLOWED 59 L/MIN AT 53 DEG C. IN 1976
 QDAW WAS NO FLOW
 REF ID: AID-124014 IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.

COMPILED AFFILIATION... UNIVERSITY OF WYOMING
REF ID: JCF..... HRECKERIDGE AND HINCKLEY, 1978

PAGE 0017

GEOTHERMAL SAMPLE LIST
NAME OF SAMPLE SOURCE... MARYAS WELL
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... HOT SPRINGS
GEOLOGIC PROVINCE...
MAP REFERENCE... THERMOPOLIS 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1976/01/02
TEMPERATURE (C)... 54.0
ELT. DEPTH (M)... 274.
DISCUSSION... DRILLED IN 1919. ARTESIAN FLOW USED FOR IRRIGATION.
OTHER SAMPLE INFORMATION?
REFERENCE AND IDENTIFICATION
COMPILED BY... HEASLER, H. P.
COMPILED AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE... HRECKERIDGE AND HINCKLEY, 1978

RECORD 00029

GEOTHERMAL FILE ID: 0015021
COORDINATES
LAT/LONG... 43-40-47 N 108-12-23 W
UTM ZONE... +12
NORTHING... 4839305.
72541.

GEOTHERMAL SAMPLE LIST
NAME OF SAMPLE SOURCE... MCCARTHY WELL
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... HOT SPRINGS
GEOLOGIC PROVINCE...
MAP REFERENCE... THERMOPOLIS 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1976/09/03
TEMPERATURE (C)... 54.0
ELT. DEPTH (M)... 155.
DISCUSSION... DRILLED IN 1920.
OTHER SAMPLE INFORMATION... DRILLED IN 1920.
P.T.O. ANALYSIS
SPECIFIC CONDUCTANCE... 7.1
TOTAL DISSOLVED SOLIDS... 3120.
CHARGE BALANCE (% DIFF)... 5.2
ANALYSIS IN PPM
AG... CO3... Li... S... L 0.001
AL... CR... Mo... 16°
H... Fe... 4.4 27°. SJ2.
BE... FE(TOT) NH... SJ6.
CA... HCO3... 16°. S04... 830.
CL... 36.9 N
CO... K... 4.6.

DISCUSSION
REFERENCE AND IDENTIFICATION
COMPILED BY... HEASLER, H. P.
COMPILED AFFILIATION... UNIVERSITY OF WYOMING

RECORD 00030

GEOTHERMAL FILE ID: 0015024
COORDINATES
LAT/LONG... 43-39-00 N 108-11-67 W
UTM ZONE... +12
NORTHING... 4838276.
726201.

DISCUSSION

RECORD 00031

REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00031

GÉOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE ... PILING SPRINGS

COUNTRY.....	UNITED STATES	LATITUDE-BEARING	COORDINATES
STATE.....	WYOMING	43N 095W 36 SW OF NE	LAT/LONG...
CITY.....	HOT SPRINGS		UTM ZONE...
GEOLOGIC PROVINCE...			NORTHING...
MAP REFERENCE...	THERMOPOLIS 1:24000		725797.
DATE/COLLECTOR...	1976/09/02		
TEMPERATURE (C).....	35.0		
DISCHARGE.....	N		
REFERENCE AND IDENTIFICATION	L/MIN		
COMPILED BY.....	HEASLER, H. P.		
COMPILER AFFILIATION...	UNIVERSITY OF WYOMING		
REFERENCE.....	RECKENRIDGE AND HINCKLEY, 1978		

RECORD 00032

GÉOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE ... SACAJAWEA WELL

LOCATION	LATITUDE-BEARING	COORDINATES
COUNTRY.....	UNITED STATES	NW OF NE
STATE.....	WYOMING	LAT/LONG...
CITY.....	HOT SPRINGS	UTM ZONE...
GEOLOGIC PROVINCE...		NORTHING...
MAP REFERENCE...	THERMOPOLIS 1:24000	725423.
SAMPLE DESCRIPTION AND CONDITION		
DATE/COLLECTOR...	1969/04/21	
TEMPERATURE (C).....	9.52.	
DEPTH (M).....	274.	
OTHER SAMPLE INFORMATION.. TEMPERATURE FROM 9/2/76 ANALYSIS. ARTESIAN FLOW TO SURFACE. WELL DRILLED IN 1918.		
PARTIAL ANALYSIS		
SPECIFIC CONDUCTANCE.....	6.6	
CHARGE BALANCE (% DIFF)...	31.0.	
ANALYSIS IN ppm	1.6	
AG.....	CO ₂ N	ISOTOPES (0.000)
AL.....	CR.....	
Na.....	F.....	
KF.....	FE (Int.)	
Ca.....	HC ₀₃	
Mg.....	Na.....	
Cl.....	NH ₄	
SO ₄	NO ₃	
CO ₃	K.....	
B.....	Ca.....	
HCO ₃	Mg.....	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	NH ₄	
HCO ₃	NO ₃	
CL.....	Fe.....	
SO ₄	Al.....	
CO ₃	Cr.....	
B.....	F.....	
HCO ₃	Fe (Int.)	
CL.....	HC ₀₃	
SO ₄	Na.....	
CO ₃	Fe.....	
B.....	Al.....	
HCO ₃	Cr.....	
CL.....	F.....	
SO ₄	Fe (Int.)	
CO ₃	HC ₀₃	
B.....	Na.....	
HCO ₃	Fe.....	
CL.....	Al.....	
SO ₄	Cr.....	
CO ₃	F.....	
B.....	Fe (Int.)	
HCO ₃	HC ₀₃	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	Fe.....	
HCO ₃	Al.....	
CL.....	Cr.....	
SO ₄	F.....	
CO ₃	Fe (Int.)	
B.....	HC ₀₃	
HCO ₃	Na.....	
CL.....	Fe.....	
SO ₄	Al.....	
CO ₃	Cr.....	
B.....	F.....	
HCO ₃	Fe (Int.)	
CL.....	HC ₀₃	
SO ₄	Na.....	
CO ₃	Fe.....	
B.....	Al.....	
HCO ₃	Cr.....	
CL.....	F.....	
SO ₄	Fe (Int.)	
CO ₃	HC ₀₃	
B.....	Na.....	
HCO ₃	Fe.....	
CL.....	Al.....	
SO ₄	Cr.....	
CO ₃	F.....	
B.....	Fe (Int.)	
HCO ₃	HC ₀₃	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	Fe.....	
HCO ₃	Al.....	
CL.....	Cr.....	
SO ₄	F.....	
CO ₃	Fe (Int.)	
B.....	HC ₀₃	
HCO ₃	Na.....	
CL.....	Fe.....	
SO ₄	Al.....	
CO ₃	Cr.....	
B.....	F.....	
HCO ₃	Fe (Int.)	
CL.....	HC ₀₃	
SO ₄	Na.....	
CO ₃	Fe.....	
B.....	Al.....	
HCO ₃	Cr.....	
CL.....	F.....	
SO ₄	Fe (Int.)	
CO ₃	HC ₀₃	
B.....	Na.....	
HCO ₃	Fe.....	
CL.....	Al.....	
SO ₄	Cr.....	
CO ₃	F.....	
B.....	Fe (Int.)	
HCO ₃	HC ₀₃	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	Fe.....	
HCO ₃	Al.....	
CL.....	Cr.....	
SO ₄	F.....	
CO ₃	Fe (Int.)	
B.....	HC ₀₃	
HCO ₃	Na.....	
CL.....	Fe.....	
SO ₄	Al.....	
CO ₃	Cr.....	
B.....	F.....	
HCO ₃	Fe (Int.)	
CL.....	HC ₀₃	
SO ₄	Na.....	
CO ₃	Fe.....	
B.....	Al.....	
HCO ₃	Cr.....	
CL.....	F.....	
SO ₄	Fe (Int.)	
CO ₃	HC ₀₃	
B.....	Na.....	
HCO ₃	Fe.....	
CL.....	Al.....	
SO ₄	Cr.....	
CO ₃	F.....	
B.....	Fe (Int.)	
HCO ₃	HC ₀₃	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	Fe.....	
HCO ₃	Al.....	
CL.....	Cr.....	
SO ₄	F.....	
CO ₃	Fe (Int.)	
B.....	HC ₀₃	
HCO ₃	Na.....	
CL.....	Fe.....	
SO ₄	Al.....	
CO ₃	Cr.....	
B.....	F.....	
HCO ₃	Fe (Int.)	
CL.....	HC ₀₃	
SO ₄	Na.....	
CO ₃	Fe.....	
B.....	Al.....	
HCO ₃	Cr.....	
CL.....	F.....	
SO ₄	Fe (Int.)	
CO ₃	HC ₀₃	
B.....	Na.....	
HCO ₃	Fe.....	
CL.....	Al.....	
SO ₄	Cr.....	
CO ₃	F.....	
B.....	Fe (Int.)	
HCO ₃	HC ₀₃	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	Fe.....	
HCO ₃	Al.....	
CL.....	Cr.....	
SO ₄	F.....	
CO ₃	Fe (Int.)	
B.....	HC ₀₃	
HCO ₃	Na.....	
CL.....	Fe.....	
SO ₄	Al.....	
CO ₃	Cr.....	
B.....	F.....	
HCO ₃	Fe (Int.)	
CL.....	HC ₀₃	
SO ₄	Na.....	
CO ₃	Fe.....	
B.....	Al.....	
HCO ₃	Cr.....	
CL.....	F.....	
SO ₄	Fe (Int.)	
CO ₃	HC ₀₃	
B.....	Na.....	
HCO ₃	Fe.....	
CL.....	Al.....	
SO ₄	Cr.....	
CO ₃	F.....	
B.....	Fe (Int.)	
HCO ₃	HC ₀₃	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	Fe.....	
HCO ₃	Al.....	
CL.....	Cr.....	
SO ₄	F.....	
CO ₃	Fe (Int.)	
B.....	HC ₀₃	
HCO ₃	Na.....	
CL.....	Fe.....	
SO ₄	Al.....	
CO ₃	Cr.....	
B.....	F.....	
HCO ₃	Fe (Int.)	
CL.....	HC ₀₃	
SO ₄	Na.....	
CO ₃	Fe.....	
B.....	Al.....	
HCO ₃	Cr.....	
CL.....	F.....	
SO ₄	Fe (Int.)	
CO ₃	HC ₀₃	
B.....	Na.....	
HCO ₃	Fe.....	
CL.....	Al.....	
SO ₄	Cr.....	
CO ₃	F.....	
B.....	Fe (Int.)	
HCO ₃	HC ₀₃	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	Fe.....	
HCO ₃	Al.....	
CL.....	Cr.....	
SO ₄	F.....	
CO ₃	Fe (Int.)	
B.....	HC ₀₃	
HCO ₃	Na.....	
CL.....	Fe.....	
SO ₄	Al.....	
CO ₃	Cr.....	
B.....	F.....	
HCO ₃	Fe (Int.)	
CL.....	HC ₀₃	
SO ₄	Na.....	
CO ₃	Fe.....	
B.....	Al.....	
HCO ₃	Cr.....	
CL.....	F.....	
SO ₄	Fe (Int.)	
CO ₃	HC ₀₃	
B.....	Na.....	
HCO ₃	Fe.....	
CL.....	Al.....	
SO ₄	Cr.....	
CO ₃	F.....	
B.....	Fe (Int.)	
HCO ₃	HC ₀₃	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	Fe.....	
HCO ₃	Al.....	
CL.....	Cr.....	
SO ₄	F.....	
CO ₃	Fe (Int.)	
B.....	HC ₀₃	
HCO ₃	Na.....	
CL.....	Fe.....	
SO ₄	Al.....	
CO ₃	Cr.....	
B.....	F.....	
HCO ₃	Fe (Int.)	
CL.....	HC ₀₃	
SO ₄	Na.....	
CO ₃	Fe.....	
B.....	Al.....	
HCO ₃	Cr.....	
CL.....	F.....	
SO ₄	Fe (Int.)	
CO ₃	HC ₀₃	
B.....	Na.....	
HCO ₃	Fe.....	
CL.....	Al.....	
SO ₄	Cr.....	
CO ₃	F.....	
B.....	Fe (Int.)	
HCO ₃	HC ₀₃	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	Fe.....	
HCO ₃	Al.....	
CL.....	Cr.....	
SO ₄	F.....	
CO ₃	Fe (Int.)	
B.....	HC ₀₃	
HCO ₃	Na.....	
CL.....	Fe.....	
SO ₄	Al.....	
CO ₃	Cr.....	
B.....	F.....	
HCO ₃	Fe (Int.)	
CL.....	HC ₀₃	
SO ₄	Na.....	
CO ₃	Fe.....	
B.....	Al.....	
HCO ₃	Cr.....	
CL.....	F.....	
SO ₄	Fe (Int.)	
CO ₃	HC ₀₃	
B.....	Na.....	
HCO ₃	Fe.....	
CL.....	Al.....	
SO ₄	Cr.....	
CO ₃	F.....	
B.....	Fe (Int.)	
HCO ₃	HC ₀₃	
CL.....	Na.....	
SO ₄	Fe.....	
CO ₃	Al.....	
B.....	Cr.....	
HCO ₃	F.....	
CL.....	Fe (Int.)	
SO ₄	HC ₀₃	
CO ₃	Na.....	
B.....	Fe.....	
HCO ₃	Al.....	
CL.....	Cr.....	
SO ₄	F.....	
CO ₃	Fe (Int.)	
B.....	HC ₀₃	
HCO ₃	Na.....	
CL.....	Fe.....	

NAME OF SAMPLE SOURCE... SACAJAWEA WELL
 LOCATION COUNTRY... UNITED STATES TOWNSHIP-RANGE 43N 095W 25 NW OF NE
 STATE... WYOMING
 COUNTY... HOT SPRINGS
 GEOLOGIC PROVINCE...
 MAP REFERENCE... THERMOPOLIS 1:240000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTION... 1976/09/02
 TEMPERATURE (C)... 52.0
 ELL DEPTH (M)... 274.
 DISCHARGE ... 4618. L/MIN
 OTHER SAMPLE INFORMATION... DRILLED IN 1918. ARTESIAN FLOW TO SURFACE.
 WATER ANALYSIS

P+	7.9
SPECIFIC CONDUCTANCE	3140.
TOTAL DISSOLVED SOLIDS	2390.
CHARGE IMBALANCE (% DIFF)	6.6
ANALYSIS IN PPM	
AL	CO3..... N
AL	CR..... L 0.1
AS	CS..... MN....
AU	CU..... L 0.01
Fe	F..... 5.4
HA	NA....
HE	FE(TOT) N
HR	BE..... NB....
CA	HC03..... NI....
CACMO	760. NU3....
CD	HG..... L 0.001
CL	PH.... L 0.1
CO	ZN....
K+	40.
REFERENCE AND IDENTIFICATION	ZN.... L 0.02
WRITTEN BY	HEASLER, H. P.
COMPLIANT AFFILIATION	UNIVERSITY OF WYOMING
REFERENCE	ARECKENRIDGE AND HINCKLEY, 1978

RECORD 00034

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... VAN NURMAN WELL
 LOCATION COUNTRY... UNITED STATES TOWNSHIP-RANGE 43N 095W 24 SE OF SW
 STATE... WYOMING
 COUNTY... HOT SPRINGS
 GEOLOGIC PROVINCE...
 MAP REFERENCE... THERMOPOLIS 1:240000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTION... 1976/09/02
 POINT OF COLLECTION...
 TEMPERATURE (C)... 51.0
 ELL DEPTH (M)... 152.
 OTHER SAMPLE INFORMATION... DRILLED IN 1919. ARTESIAN FLOW CONTROLLED AND USED TO HEAT LOCAL HOUSE.
 REFERENCE AND IDENTIFICATION
 COMPLIANT AFFILIATION... HEASLER, H. P.
 COMPLIANT AFFILIATION... UNIVERSITY OF WYOMING

COORDINATES
 LAT/LONG... 43-40-30 N 108-12-23 W
 UTM ZONE... +12
 NORTHING... 4838991.
 725423.

RECORD 00034

GEOTHERM FILE 101 0075020

NAME OF SAMPLE SOURCE... VAN NURMAN WELL
 LOCATION COUNTRY... UNITED STATES TOWNSHIP-RANGE 43N 095W 24 SE OF SW
 STATE... WYOMING
 COUNTY... HOT SPRINGS
 GEOLOGIC PROVINCE...
 MAP REFERENCE... THERMOPOLIS 1:240000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTION... 1976/09/02
 POINT OF COLLECTION...
 TEMPERATURE (C)... 51.0
 ELL DEPTH (M)... 152.
 OTHER SAMPLE INFORMATION... DRILLED IN 1919. ARTESIAN FLOW CONTROLLED AND USED TO HEAT LOCAL HOUSE.
 REFERENCE AND IDENTIFICATION
 COMPLIANT AFFILIATION... HEASLER, H. P.
 COMPLIANT AFFILIATION... UNIVERSITY OF WYOMING

WELLHEAD PRESSURE (KG/CM2)... 1.6

REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

PAGE 0020

RECORD 00035

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WHITE SULPHUR SPRING
LOCATION TOWNSHIP-BRANGE 43N 94W 30 SW OF SW
COUNTRY UNITED STATES WYOMING
STATE WYOMING HOT SPRINGS
COUNTY
GEOLOGIC PROVINCE..
MAP REFERENCE... THERMOPOLIS 1:240000
SAMPLE DESCRIPTION AND CONDITION
DATE COLLECTED 1933/06/12
TEMPERATURE (C) 0 53.
OTHER SAMPLE INFORMATION.. TEMPERATURE FROM 9/2/76 ANALYSIS.
WATER ANALYSIS

SPECIFIC CONDUCTANCE.... 3990.

TOTAL DISSOLVED SOLIDS.... 2321.

CHARGE BALANCE (% DIFF) ... 0.0

ANALYSIS IN PPM

AL.	CR.....	Mg.....	Na...	K.....	SO4.....	Cl.....
H.....	F.....	3.8	NA...	253.	SI02.	37.
HF.....	FE(Tn1)	0.05	NB...	0.1	SO4..	773.
CA.....	383.	1C03.....	784.			
CD.....		H2S.....	2.3			
CL.....	3.6d.					

COMPOSITION AND IONIZATION

COMPILED BY HEASLER, H. P.

COMPLIER AFFILIATION.. UNIVERSITY OF WYOMING

REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00036

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WHITE SULPHUR SPRING
LOCATION TOWNSHIP-BRANGE 43N 94W 30 SW OF SW
COUNTRY UNITED STATES WYOMING
STATE WYOMING HOT SPRINGS
COUNTY
GEOLOGIC PROVINCE..
MAP REFERENCE... THERMOPOLIS 1:240000
SAMPLE DESCRIPTION AND CONDITION
DATE COLLECTOR (C) 1976/09/02
TEMPERATURE (C) 53.0
ANALYSIS
WATER ANALYSIS

P-H. SPECIFIC CONDUCTANCE.... 700.

TOTAL DISSOLVED SOLIDS.... 2990.

CHARGE BALANCE (% DIFF) ... 5.7

ANALYSIS IN PPM

AL.	CR.....	Mg.....	Na...	K.....	SO4.....	Cl.....
0.45	1	8.1	NA...	276.	SI02.	51.

GEOTHERM FILE ID: 0075027
COUNTRIES
LAT/LONG... 43-39.67 N 108-11.08 W
UTM ZONE... +12
NORTHING... 4837849.
726202.

GEOTHERM FILE ID: 0075026
COUNTRIES
LAT/LONG... 43-39.67 N 108-11.08 W
UTM ZONE... +12
NORTHING... 4837849.
726202.

ISOTOPES (002002)

ISOTOPES (002002)

WATER ANALYSIS

P.H. 8.0
SOFTIC CONDUCTANCE 1150.
TOTAL DISSOLVED SOLIDS 75.
CHARGE IMBALANCE (% DIFF) 2.1
ANALYSIS IN PPM

CO₂..... N
AL..... CR..... 50.
H..... 0.12 F..... 1.2 NA.... 41.
FE..... FE(TOT) 0.09 NB.... 5102.
CA..... HCU3.... 377. NO3.... S04... 276.
CL..... 39. 0.3

DUAL IDENTIFICATION FIELD AND TEMPERATURE FROM 9/1/76 ANALYSIS.

REFERENCE AND IDENTIFICATION
COMPILED BY HEASLER, H. P.
COMPLIER AFFILIATION UNIVERSITY OF WYOMING
REFERENCE AHECKENRIDGE AND HINCKLEY, 1978

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE AUBURN AREA

LOCATION UNITED STATES TOWNSHIP-RANGE

COUNTRY..... STATE..... WYOMING

STATE..... LINCOLN

COUNTY.....

GEOLIC PROVINCE.....

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C) 16.0

DISCHARGE 11.0 L/MIN

WATER ANALYSIS

DATE/ANALYST 1958/04/00

P.H. 8.2

CHARGE IMBALANCE (% DIFF) 5.8

ANALYSIS

H..... F..... NA.... 1500.

HE..... FE(TOT) NB.... S102.

CA..... 252. HCU3.... S04... 110.

CL..... 2000. 70. 1430.

COMPOSITION

CO..... K..... 186.

REFERENCE AND IDENTIFICATION

COMPILED BY REINER, J.

COMPLIER AFFILIATION U.S. GEOLOGICAL SURVEY

REFERENCE WHITE AND WILLIAMS, 1975

RECORD 00039

GEOTERM FILE ID: 000779

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE AUBURN HOT SPRINGS

LOCATION UNITED STATES TOWNSHIP-RANGE

COUNTRY..... STATE..... WYOMING

STATE..... LINCOLN

COUNTY.....

GEOLIC PROVINCE.....

MAP REFERENCE 124060

GEOTERM FILE ID: 000779

NAME OF SAMPLE SOURCE AUBURN HOT SPRINGS

LOCATION UNITED STATES TOWNSHIP-RANGE

COUNTRY..... STATE..... WYOMING

STATE..... LINCOLN

COUNTY.....

GEOLIC PROVINCE.....

MAP REFERENCE 4741167.

GEOTERM FILE ID: 0075041

NAME OF SAMPLE SOURCE AUBURN HOT SPRINGS

LOCATION UNITED STATES TOWNSHIP-RANGE

COUNTRY..... STATE..... WYOMING

STATE..... LINCOLN

COUNTY.....

GEOLIC PROVINCE.....

MAP REFERENCE 500000.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1927/00/00
 TEMPERATURE (C)..... 0 62.0
 OTHER SAMPLE INFORMATION... COVERS 3 ACRES WITH 100 SEPARATE VENTS AND 2 LARGE POOLS.
 WATER ANALYSIS
 CHARGE INHALANCE (% DIFF).... 1.4
 ANALYSIS IN ppm

AL.....	CR.....	M6....	97.	
H.....	F.....	NA....	1314.	SI02.
HF.....	FE(10T)	NB....	504..	2 ^u
CA.....	HC03....	154..		1904.
CL.....				
CO.....				

QUALIFICATION FIELD..... TEMPERATURE FROM 9/22/76 ANALYSIS. GEOCHEMICAL WORK SUGGESTS SUBSURFACE TEMPERATURE OF 150 DEG C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPUTER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00041

GEOTERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... AUBURN HOT SPRINGS
 LOCATION..... TOWNSHIP=RANGE 33N 119W 23 NW OF SE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... LINCOLN
 GEOLOGIC PROVINCE...
 MAP REFERENCE..... BEDFORD 1:240000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1972/00/00
 TEMPERATURE (C)..... 0 16.0
 OTHER SAMPLE INFORMATION... COVERS 3 ACRES WITH 100 SEPARATE VENTS AND 2 LARGE POOLS.
 WATER ANALYSIS
 CHARGE INHALANCE (% DIFF).... 0.8

AL.....	CR.....	M6....	7u.	
H.....	F.....	NA....	1500.	
HF.....	FE(10T)	NB....	504..	1430.
CA.....	HC03....	70..	6..6	
CL.....				
CO.....				

QUALIFICATION FIELD..... GEOCHEMICAL WORK SUGGESTS SUBSURFACE TEMPERATURE OF 150 DEG C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPUTER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00042

GEOTERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... AUBURN HOT SPRINGS
 LOCATION..... TOWNSHIP=RANGE 33N 119W 23 NW OF SE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 LAT/LONG.... 42-50-42 N 110-59-50 W
 UTM ZONE.... +12
 NORTHING.... 4742870.
 500681.

COUNTY..... LINCOLN
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... BEDFORD 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1972/JUN/00
 TEMPERATURE (C)..... 0 62.0
 OTHER SAMPLE INFORMATION.. COVERS 3 ACRES WITH 100 SEPARATE VENTS AND 2 LARGE POOLS.
 WATER ANALYSIS
 CHARGE IMBALANCE (% DIFF) ... 0.2
 ANALYSIS IN PPM
 AL..... CR..... MG... NA... 74.
 H..... F..... MG... NA... 1410.
 HE..... FE(TOT)..... NA... 504... 1100.
 CA..... HC03..... 94.
 CL.....
 CO.....
 QUALIFICATION FIELD..... GEOTHERMAL WORK SUGGESTS SUBSURFACE TEMPERATURE OF 150 DEG C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00043

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... AUBURN HOT SPRINGS
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... LINCOLN
 GEOLOGIC PROVINCE...
 MAP REFERENCE..... BEDFORD 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/09/22
 TEMPERATURE (C)..... 0 62.0
 DISCHARGE..... 140. L/MIN
 OTHER SAMPLE INFORMATION.. COVERS 3 ACRES WITH 100 SEPARATE VENTS AND 2 LARGE POOLS.
 WATER ANALYSIS
 PH..... 7.5
 SPECIFIC CONDUCTANCE..... 6800.
 TOTAL DISSOLVED SOLIDS.... 5250.
 CHARGE IMBALANCE (% DIFF) ... 5.9
 ANALYSIS IN PPM
 AG..... CO3..... N..... LI... MG... 70.
 AL..... CR..... L 0.1
 AS..... CS..... MN... L 0.05
 AU..... CU..... MU... SE...
 H..... F..... NA... SI02... 0.001
 HA..... 0.6
 HE..... FE(TOT) .. N..... SG... 1100.
 HR..... FE(TOT) .. N..... NL... 0.1
 CA..... HC03..... NU3... PH...
 CA+HC03..... HC03..... 860... 0.5
 CD..... L 0.01
 CL..... 1700.
 CO..... K..... LN... 0.34

NORTHING... 47428/0.
 500681.

NORTHING... 42-50-42 N 110-59-50 W
 UTM ZONE... 12
 NORTHING... 4742870.
 500681.

NORTHING... 42-50-42 N 110-59-50 W
 UTM ZONE... 12
 NORTHING... 4742870.

NORTHING... 42-50-42 N 110-59-50 W
 UTM ZONE... 12
 NORTHING... 4742870.

QUALIFICATION FIELD..... GENCHEMICAL WORK SUGGESTS SUBSURFACE TEMPERATURE OF 150 DEG C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HASLER, H. P.
 CHAPTER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00044

GEOThERM-SAMPLE-FILE
 NAME OF SAMPLE SOURCE... JOHNSUN SPRINGS
 LOCATION TOWNSHIP-RANGE 33N 119W 26 SE OF NE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... LINCOLN
 GEOLOGIC PROVINCE... 41
 MAP REFERENCE..... BEDFORD 1:24000
 OTHER LOCALITY INFORMATION: LOCATED 1 MILE SOUTH OF AUBURN HOT SPRINGS.
 SAMPLE DESCRIPTION AND CONDITION
 DATE/COLLECTOR..... 1976/09/22
 TEMPERATURE (C)..... 46.0
 DISCHARGE..... 7.6 L/MIN
 DEPOSITS OR ALTERATION..... 5 TRAVERTINE CONES TO 8 FT IN HEIGHT.
 OTHER SAMPLE INFORMATION: SPRINGS IN LINEAR PATTERN.

REFERENCE AND IDENTIFICATION
 COMPILED BY..... HASLER, H. P.

CHAPTER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00045

GEOThERM-SAMPLE-FILE
 NAME OF SAMPLE SOURCE... ALCOVA HOT SPRINGS
 LOCATION TOWNSHIP-RANGE 30N 083W 25 NW OF NE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... NATRONA
 GEOLOGIC PROVINCE... 41
 MAP REFERENCE..... ALCOVA 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1900/00/00
 TEMPERATURE (C)..... 59.0
 OTHER SAMPLE INFORMATION: SITE IS NOW UNDER 160 FT OF WATER CAUSED BY ALCOVA DAM.
 WATER ANALYSIS
 TOTAL DISSOLVED SOLIUS..... 1.91
 CHARGE IMPALANCE (% DIFF).... 1.06
 ANALYSIS IN ppm
 AL..... CR..... Mg..... 29.
 H..... F..... Na..... 210.
 HE..... FE(II)..... NH..... SiO2..... 44.
 CA..... HCO3..... 1.36.
 CL..... 296. K..... 13.
 CO2.....

REFERENCE AND IDENTIFICATION
 COMPILED BY..... HASLER, H. P.
 CHAPTER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

GEOTHERM FILE ID: 0075042
 GEOTHERM FILE ID: 0075044
 GEOTHERM FILE ID: 0075046

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RECURU 00046

GEOTHERM FILE ID: 0075043

GEOTHERM SAMPLE LIST
 NAME OF SAMPLE SOURCE... ALCOVA HOT SPRINGS
 LOCATION TOWNSHIP-BRANGE 36N 083W 25 NW OF NE

COUNTRY... UNITED STATES LAT/LONG... 42-32-28 N 106-43-27 W
 STATE... WYOMING UTM ZONE... +13
 COUNTY... NATRONA NORTHING... 4710734.
 GEOLLOGIC PROVINCE...
 MAP REFERENCE... ALCOVA 1:24000.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1929/05/25
 TEMPERATURE (C)... 54.0
 DISCHARGE... 379. L/MIN
 OTHER SAMPLE INFORMATION... FLOW CAME FROM 4 VENTS. TWO VENTS EACH FLOWED 40 GPM. SITE IS NOW UNDER 160 FT. OF WATER
 CAUSED BY ALCOVA DAM.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 1260.
 CHARGE IMBALANCE (% DIFF)... 0.3

ANALYSIS IN PPM

AG...	CO3....	Na....	Mg....	K....
Al...	Cr.....	F.....	27.	14.
H...	F.....	FET(TT)	199.	5102.
He...	0.1	NB....	504..	458.
Ca...	HC03....	NO3...	0.1	
Cl...	287.			
Cu...	K.....			

REFERENCE AND IDENTIFICATION

COMPILED BY HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE... HECKENRIDGE AND HINCKLEY, 1978

RECURU 00047

GEOTHERM FILE ID: 0075045

GEOTHERM SAMPLE LIST
 NAME OF SAMPLE SOURCE... HORSE CREEK SPRINGS
 LOCATION TOWNSHIP-BRANGE 32N 086W 35 SE OF NW

COUNTRY... UNITED STATES LAT/LONG... 42-42-10 N 107-06-33 W
 STATE... WYOMING UTM ZONE... +13
 COUNTY... NATRONA NORTHING... 4729621.
 GEOLLOGIC PROVINCE... 41

MAP REFERENCE... HORSE CREEK SPRINGS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1976/09/01
 TEMPERATURE (C)... 23.5

DISCHARGE... 8323. L/MIN
 OTHER SAMPLE INFORMATION... TWO MAIN VENTS 30 FT APART.

WATER ANALYSIS	P...	7.7
SPECIFIC CONDUCTANCE...	798.	
TOTAL DISSOLVED SOLIDS...	502.	
CHARGE IMBALANCE (% DIFF)... 2.5		
ANALYSIS IN PPM	CO3....	S....
AG...	Cr.....	L....
Al...		Mo....

ISOTOPES_102001

ISOTOPES_102001

HE 0.03 F..... 1.6 NB.... 8.8 SI02. 21.
 HE (TOT) FE (TOT) NB.... SI02.
 HC03.... 170. NA.... 504.. 290.
 CA..... 120. HC03....
 CL..... 1.8 K..... H.P.
 CO.....
 DIFFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00048

GÉOTHERM-SAMPLE-FILE

NAME OF SAMPLE SOURCE... BUFFALO BILL RESERVOIR SPRINGS

LOCATION TOWNSHIP-RANGE

COUNTRY UNITED STATES 52N 103W 12.10NW

STATE WYOMING

CITY PARK

COUNTY

GEOLOGIC PROVINCE

MAP REFERENCE

OTHER LOCALITY INFORMATION

DEVILS TOTH 1:62500

DETAILED LOCATION OF ALL 4 SPRINGS: SEC.

10 SE/4 OF NE/4 SEC. 14 SW/4 OF NE/4.

SAMPLE DESCRIPTION AND CONDITIONS

OTHER SAMPLE INFORMATION

TOTAL OF 4 SPRINGS.

COVERED BY BUFFALO BILL RESERVOIR IN 1907.

KEEPS AN AREA IN SECTION

12. ICE-FREE IN WINTER.

DIFFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00049

GÉOTHERM FILE ID: 0075046

GÉOTHERM-SAMPLE-FILE

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS

LOCATION TOWNSHIP-RANGE

COUNTRY UNITED STATES 52N 102W 03 SW OF NW

STATE WYOMING

CITY PARK

COUNTY

GEOLOGIC PROVINCE

MAP REFERENCE

CODY 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR

1926/00/00

TEMPERATURE (C)

J 24.

DISCHARGE

J

OTHER SAMPLE INFORMATION

SEVEN VENTS.

CHEMISTRY FOR UNSPECIFIED VENT.

WATER ANALYSIS

A: ANALYSIS IN PPM

B: ANALYSIS IN PPM

C: ANALYSIS IN PPM

D: ANALYSIS IN PPM

E: ANALYSIS IN PPM

F: ANALYSIS IN PPM

G: ANALYSIS IN PPM

H: ANALYSIS IN PPM

I: ANALYSIS IN PPM

J: ANALYSIS IN PPM

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V: ANALYSIS IN PPM

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X: ANALYSIS IN PPM

Y: ANALYSIS IN PPM

Z: ANALYSIS IN PPM

AA: ANALYSIS IN PPM

BB: ANALYSIS IN PPM

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DD: ANALYSIS IN PPM

EE: ANALYSIS IN PPM

FF: ANALYSIS IN PPM

GG: ANALYSIS IN PPM

HH: ANALYSIS IN P

CIMPLER AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00050

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DE MAKIS HOT SPRINGS
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... PARK
GEOLoGIC PROVINCE...
MAP REFERENCE... CODY 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR... 1926/00/00
TEMPERATURE (C)... Q 37.0
DISCHARGE... 0
OTHER SAMPLE INFORMATION... SEVEN VENTS. CHEMISTRY FOR UNSPECIFIED VENT.
WATER ANALYSIS
ANALYSIS IN ppm
Al... CO3..... Li... Na... 504..
Al... Cr... 367.. S102.. 104..
H... F... NA... 256.. 38..
He... FE(TOT)... 24.. NB... 504..
Ca... 188.. HC03... 872..
Cl... 29..
CLIFICATION FIELD... OTHER VENTS FLOW FROM 4 TO 1893 L/MIN AND HAVE TEMPERATURES OF 27 TO 36 DEG C.
REFERENCE AND IDENTIFICATION

CIMPLER AFFILIATION... HEASLER, H. P.
CIMPLER AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00051

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DE MAKIS HOT SPRINGS
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... PARK
GEOLoGIC PROVINCE...
MAP REFERENCE... CODY 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR... 1970/08/14
TEMPERATURE (C)... Q 27.5
DISCHARGE... 0
OTHER SAMPLE INFORMATION... SEVEN VENTS. CHEMISTRY FOR VENT 2.
WATER ANALYSIS
PH... 7.0
SPECIFIC CONDUCTANCE... 1790.
TOTAL DISSOLVED SOLIDS... 1340.
CHANGE IN PHASE (% DIFF)... 1.5
ANALYSIS IN ppm
Al... CH... Na... 70..
H... F... 30.. S102.. 18..
Fe(TOT)... 0.08 NB... 504.. 418.

RECORD 00054

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DE MAKIS HOT SPRINGS
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... PARK
GEOLoGIC PROVINCE...
MAP REFERENCE... CODY 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR... 1926/00/00
TEMPERATURE (C)... Q 37.0
DISCHARGE... 0
OTHER SAMPLE INFORMATION... SEVEN VENTS. CHEMISTRY FOR UNSPECIFIED VENT.
WATER ANALYSIS
LIQUIDES_102500

LAT/LONG... 44-30-78 N 109-06-88 W
UTM ZONE... +12
NORTHING... 4930365.
649851.

RECORD 00054

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DE MAKIS HOT SPRINGS
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... PARK
GEOLoGIC PROVINCE...
MAP REFERENCE... CODY 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR... 1970/08/14
TEMPERATURE (C)... Q 27.5
DISCHARGE... 0
OTHER SAMPLE INFORMATION... SEVEN VENTS. CHEMISTRY FOR VENT 2.
WATER ANALYSIS
PH... 7.0
SPECIFIC CONDUCTANCE... 1790.
TOTAL DISSOLVED SOLIDS... 1340.
CHANGE IN PHASE (% DIFF)... 1.5
ANALYSIS IN ppm
Al... CH... Na... 70..
H... F... 30.. S102.. 18..
Fe(TOT)... 0.08 NB... 504.. 418.

CA..... 324. HC03..... 900. NO3..... N
 CL.... 17. K..... 17. VENTS FLOW FROM 4 TO 1893 L/MIN. TEMPERATURES RANGE FROM 27 TO 36 UEG C.
 QUALIFICATION FIELD..... VENTS FLOW FROM 4 TO 1893 L/MIN. TEMPERATURES RANGE FROM 27 TO 36 UEG C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION..... UNIVERSITY OF WYOMING
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00052

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS
 LOCATION TOWNSHIP-BRANGE 52N 102W 03 SW OF NW

COUNTY..... UNITED STATES LAT/LONG... 44-30-78 N 109-06.88 W
 STATE..... WYOMING UTM ZONE... +12
 COUNTY..... PARK NORTHING... 4930365.
 6499851.

GEOLOGIC PROVINCE... MAP REFERENCED 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1976/08/17
 TEMPERATURE (C)..... 27.0
 DISCHARGE..... 0

OTHER SAMPLE INFORMATION... SEVEN VENTS. CHEMISTRY FOR UNSPECIFIED VENT.

WATER ANALYSIS

PH.....	6.5	SPECIFIC CONDUCTANCE.....	1570.
TOTAL DISSOLVED SOLIDS.....	1340.	CHARGE IMBALANCE (% DIFF).....	3.3
ANALYSIS IN PPM		ISOTOPES (0.001)	
Ag..... L 0.5	CO3..... N	Li.....	S..... L 0.001
Al.....	Cr..... L 0.1	Mg.....	74.
AS..... L 0.03	CS.....	Mn.....	L 0.05
Al.....	CU..... L 0.01	Mo.....	SE... L 0.001
H..... 0.33	F..... 2.7	Na.....	SI02. 17.
BA..... L 0.5	FE (10%) N	NB.....	504.. 400.
HF.....	Ge.....	Ni..... L 0.1	
HW.....	HC03..... 880.	NO3..... N	
CA..... 300.	HG..... 0.003	PB..... L 0.1	
CA+Hg.....			
CD..... L 0.31			
CL.... 17.			
CO.....	K..... 13.	ZN.....	L 0.02

QUALIFICATION FIELD..... VENTS HAVE FLOWS FROM 4 TO 1893 L/MIN.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION..... UNIVERSITY OF WYOMING
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00053

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS
 LOCATION TOWNSHIP-BRANGE 52N 102W 03 SW OF NW

COUNTY..... UNITED STATES LAT/LONG... 44-30-78 N 109-06.88 W
 STATE..... WYOMING UTM ZONE... +12

RECORD 00053

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS
 LOCATION TOWNSHIP-BRANGE 52N 102W 03 SW OF NW

COUNTY..... UNITED STATES LAT/LONG... 44-30-78 N 109-06.88 W
 STATE..... WYOMING UTM ZONE... +12

NORTHING... 4930365.
649851.

COUNTY..... PARK
GEOLOGIC PROVINCE... MONT. REFERENCE... CODY 1192500
SAMPLE DESCRIPTION... AND CONDITIONS
DATE/COLLECTOR... 1964/02/15
TEMPERATURE (C)... 0 27.0
DISCHARGE... Q

OTHER SAMPLE INFORMATION... SEVEN VENTS. CHEMISTRY FOR VENT 2.
WATER ANALYSIS
PH... 7.1
SIFIC CONDUCTANCE... 1960.
CHARGE L-MALANCE (% DIFF)... 0.8
ANALYSIS IN PPM

AL...	CR.....	Mg....	63*	LISOLUPES_LQ/001
H...	F.....	Na...	33*	
HE...	FE(101)	NB...	S102*	
CA...	369.	HO3...	S04..	418.
CL...	2.0.	NO3...	0.1	

K. 16.
QUALIFICATION FIELD... VENTS FLOW FROM 4 TO 1893 L/MIN. TEMPERATURES RANGE FROM 27 TO 36 DEG C.
REFERENCE AND IDENTIFICATION
COMPILED BY... HEASLER, H. P.
COMPLIER AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE... RHECKENRIDGE AND HINCKLEY, 1978

RECORD 00054

GEOTHERM FILE 101 0075052

GEOTHERM SAMPLE-LILE
NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGSLOCATION LOWNSHIE-BANGE
COUNTRY... UNITED STATES 52N 102W 03 SW UF NW

STATE... WYOMING

COUNTY... PARK

GEOLOGIC PROVINCE... MONT. REFERENCE... CODY 1192500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1970/08/14

TEMPERATURE (C)... 0 27.0

DISCHARGE... Q

OTHER SAMPLE INFORMATION... SEVEN VENTS. CHEMISTRY FOR VENT 1.
WATER ANALYSIS
PH... 7.0
SIFIC CONDUCTANCE... 1886.

TOTAL DISSOLVED SOLIDS... 1320.

CHARGE L-MALANCE (% DIFF)... 2.9

ANALYSIS IN PPM

AL...	CR.....	Mg....	66*	LISOLUPES_LQ/001
H...	F.....	Na...	30*	
HE...	FE(101)	NB...	S102*	14.
CA...	322.	HO3...	S04..	402.
CL...	16.	NO3...	N	

K. 1A.
QUALIFICATION FIELD... VENTS FLOW FROM 4 TO 1893 L/MIN. TEMPERATURES RANGE FROM 27 TO 36 DEG C.
REFERENCE AND IDENTIFICATION
COMPILED BY... HEASLER, H. P.
COMPLIER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY. 1978

PAGE 0031

RECORD 00055

GÉOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS
LOCATION TOWNSHIP= RANGE
STATE UNITED STATES 52N 102W 03 SW OF NW
COUNTRY WYOMING
COUNTY PARK
GEOLOGIC PROVINCE..
MAP REFERENCE... CODY 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTED 1968/02/15
TEMPERATURE (C) 0 28.0
DISCHARGE 0
OTHER SAMPLE INFORMATION... SEVEN VENTS. CHEMISTRY FOR VENT 1.

WATER ANALYSIS
P 6.9
TOTAL DISSOLVED SOLIDS 1970.
CHARGE IMBALANCE (% DIFF) 1.4
ANALYSIS IN ppm
Ag Li \$.... 16.
Al Cr Mg 72.
B F Na 33.
He Fe(TOT) Nb \$04.. 422.
Ca 354. HCO3 NO3 0.1
Cl 21.
CO2 K 16.
QUALIFICATION FIELD AND VENT NUMBER
REFERENCE AND IDENTIFICATION
COMPILED BY HEASLER, H. P.
COMPILER AFFILIATION UNIVERSITY OF WYOMING
REFERENCE..... BRECKENRIDGE AND HINCKLEY. 1978

RECORD 00056

GÉOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS
LOCATION TOWNSHIP= RANGE
STATE UNITED STATES 52N 102W 03 SW OF NW
COUNTRY WYOMING
COUNTY PARK
GEOLOGIC PROVINCE... 41
MAP REFERENCE... CODY 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTED 1976/08/18
TEMPERATURE (C) 36.0
DISCHARGE 0 1514. L/MIN
OTHER SAMPLE INFORMATION... SEVEN VENTS. CHEMISTRY FOR UNSPECIFIED VENT.
WATER ANALYSIS
P 7.0
SPECIFIC CONDUCTANCE.....
TOTAL DISSOLVED SOLIDS..... 1800.
CHARGE IMBALANCE (% DIFF) 1730.
ANALYSIS IN ppm
ISOTOPES_L0001

RECORD 00057

GÉOTHERM FILE 10: 0075051
COORDINATES
LAT/LUNG... 44-30.78 N 109-06.88 W
UTM ZONE... *12
NORTHING... 4930365.
649851.

ISOTOPES_L0001

AG..... L 0.05
 AL.....
 AS..... L 0.05
 AI.....
 R..... 0.49
 RA..... L 0.5
 HE.....
 HR.....
 CA..... 380.
 CA+MIS.
 CD..... L 0.01
 CL..... 25.
 CH.....
 QUALIFICATION FIELD..... OTHER VENTS FLOW FROM 4 TO 1893 L/MIN.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION..... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

GÉOTHÈME SAMPLÉ-ÉLÉMENT
 NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - ANGEL TERRACE
 LOCATION
 COUNTY.....
 STATE..... UNITED STATES
 CITY.....
 PARK..... WYOMING
 MAP REFERENCE..... MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 36
 GAS ANALYSIS
 DATE/ANALYST..... 1930/00/00
 ANALYSIS IN VOLUME %
 CH4... N
 C2H6...
 CO2... N
 H2...
 OTHER ANALYTICAL DATA... CO = 0.
 QUALIFICATION FIELD..... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-315
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00057
 GÉOTHÈME SAMPLÉ-ÉLÉMENT
 NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - ANGEL TERRACE
 LOCATION
 COUNTY.....
 STATE..... UNITED STATES
 CITY.....
 PARK..... WYOMING
 MAP REFERENCE..... MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 36
 GAS ANALYSIS
 DATE/ANALYST..... 1930/00/00
 ANALYSIS IN VOLUME %
 CH4... N
 C2H6...
 CO2... N
 H2...
 OTHER ANALYTICAL DATA... CO = 0.
 QUALIFICATION FIELD..... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-315
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00058
 GÉOTHÈME SAMPLÉ-ÉLÉMENT
 NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - CAVERN TERRACE
 LOCATION
 COUNTY.....
 STATE..... UNITED STATES
 CITY.....
 PARK..... WYOMING
 MAP REFERENCE..... MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS

RECORD 00059
 GÉOTHÈME SAMPLÉ-ÉLÉMENT
 NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - CAVERN TERRACE
 LOCATION
 COUNTY.....
 STATE..... UNITED STATES
 CITY.....
 PARK..... WYOMING
 MAP REFERENCE..... MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 116
 TEMPERATURE (C)..... 66.4

GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %

C₄H₈..... 14

C₂H₆..... 10.0 N
 CO₂..... 0.00 N

QUALIFICATION FIELD..... O₂ = 02 + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-321
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00059

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - CLEOPATRA SPRING
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

MAP REFERENCE..... MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 4

OBJECT SAMPLE INFORMATION..... TEMPERATURE = 71. DEGREES C. IN 1925, AND 69. DEGREES C. IN 1929.
 WATERS ANALYSIS

DATE/ANALYST..... 1930/00/00
 ANALYSIS IN PPT

HE..... FE (TGT)..... NB.....
 CA..... 289. MC03..... 735.

CL..... 1H1.

REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00060

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - CLEOPATRA SPRING
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

MAP REFERENCE..... MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1903/00/00
 SAMPLE NUMBER..... VIII

WATER ANALYST..... 1888/00/00
 ANALYSIS IN PPT

GEOTHERM FILE 101 0020460

COORDINATES
 LAT/LONG.... 44-58.5 N 110-42.6 W

RECORD 00061

GEOTHERM FILE 101 0020459
 COORDINATES
 LAT/LONG.... 44-58.5 N 110-42.6 W

ISOTOPES 10001

AG..... 4 4.9
AL.... 4 3.5
H..... 4t.....
H1.....
CA..... 308.
CL..... 175.
CO.....
GAS ANALYSIS IN VOLUME %

CH₄... T
C2H₆...
CO₂... 9.5.
H₂... 0.7
OTHER ANALYTICAL DATA... H₂O ANAL. ASS203 = 3.1 PPM.
QUALIFICATION FIELD... AL = AL + FE; B CALCULATED FROM H₂O3.
REFERENCE AND IDENTIFICATION

CAPTIONED BY..... LAWSON, WILLIAM A.
CAPTIONER AFFILIATION... U.S. GEOLOGICAL SURVEY
CAPTIONER CROSS INDEX... NEH-311
REFERENCE..... ALLEN AND DAY, 1935 (GAS ANAL.); H₂O ANAL.; GOOD AND WHITFIELD, 1888

CO₂.... 51.
GAS ANALYSIS IN VOLUME %

H₂S... N
CH₄... 4.99
C2H₆... 02...
CO₂... 1.7

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
ANALYSIS IN MOLE %
AG... N
AL... id
H... id
CO₂... 10.5.
H₂... 0.4
REFERENCE AND IDENTIFICATION

CAPTIONED BY..... LAWSON, WILLIAM A.

CAPTIONER AFFILIATION... U.S. GEOLOGICAL SURVEY

CAPTIONER CROSS INDEX... NEH-322

REFERENCE (C)..... GUNTER AND MUSGRAVE, 1966

RECORD 00061

GEOTHERM FILE ID: 0020471

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... MAMMUTH HUT SPRINGS - CUPID SPRING
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
MAP REFERENCE..... MAMMOTH 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/CAPTIONER..... 1965/00/00 GUNTER AND MUSGRAVE
SAMPLE NUMBER..... 117
REFERENCE (C)..... 71.

GAS ANALYSIS
DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
ANALYSIS IN MOLE %
AG... N
AL... id
H... id
CO₂... 10.5.
H₂... 0.4
REFERENCE AND IDENTIFICATION

CAPTIONED BY..... LAWSON, WILLIAM A.

CAPTIONER AFFILIATION... U.S. GEOLOGICAL SURVEY

CAPTIONER CROSS INDEX... NEH-322

REFERENCE (C)..... GUNTER AND MUSGRAVE, 1966

N2... 0.1
O2... 02... N

ISOTOPES_100ZU

RECORD 00062

GEOTHERM FILE ID: 0020465

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... MAMMUTH HUT SPRINGS - HYMEN TERRACE
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING

COORDINATES
LAT/LONG... 44-58. N 110-42. W

COUNTY..... PARK
MAP REFERENCE..... MAMMOTH I : 62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/09/00

SAMPLE NUMBER..... 37

TEMPERATURE (C)..... 70.5

WATER ANALYSIS
DATE/ANALYST.....

CARGE THERMANCE (% DIFF)..... 0.0

ANALYSIS IN PPT.....

Al..... CO3..... N

Ar..... CO..... N

N..... H..... N

WF..... FE(TOT).....

CA..... HC03..... 79.5

CL..... 1.0%

Li..... K..... 57.

Gas ANALYSIS
ANALYSIS IN VOLUME %

CH₄..... N

C₂H₆..... 0.0

CO₂..... 0.1

HP..... 0

OTHER ANALYTICAL DATA..... H2O ANAL: S203 = 6. ppm. GAS ANAL: CO = 0. ppm.

QUALIFICATION FIELD..... N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COLLECTOR..... U.S. GEOLOGICAL SURVEY

CROSS INDEX..... NEH-316

REFERENCE..... ALLEN AND DAY, 1935

GENERIC SAMPLE FILE
NAME OF SAMPLE SOURCE.... MAMMOTH HOT SPRINGS - JUPITER TERRACE
LOCATION..... UNITED STATES
COUNTRY..... WYOMING
MAP REFERENCE..... MAMMOTH I : 62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/09/00

TEMPERATURE (C)..... 71.

Gas ANALYSIS
DATE/ANALYST..... 1930/09/00

ANALYSIS IN VOLUME %

CH₄..... N

C₂H₆..... 0.0

CO₂..... 0.1

HP..... 0

ANALYTICAL FIELD..... N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COLLECTOR..... LAWSON, WILLIAM A.

COLLECTOR..... U.S. GEOLOGICAL SURVEY

CROSS INDEX..... NEH-316

REFERENCE..... ALLEN AND DAY, 1935

ISOLATES-100/001

ANALYSIS IN PPT.....

Al..... CO3..... N

Ar..... CO..... N

N..... H..... N

WF..... FE(TOT).....

CA..... HC03..... 79.5

CL..... 1.0%

Li..... K..... 57.

Gas ANALYSIS
ANALYSIS IN VOLUME %

CH₄..... N

C₂H₆..... 0.0

CO₂..... 0.1

HP..... 0

OTHER ANALYTICAL DATA..... H2O ANAL: S203 = 6. ppm. GAS ANAL: CO = 0. ppm.

QUALIFICATION FIELD..... N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COLLECTOR..... LAWSON, WILLIAM A.

AFFILIATION..... U.S. GEOLOGICAL SURVEY

CROSS INDEX..... NEH-316

REFERENCE..... ALLEN AND DAY, 1935

ISOLATES-100/002

ANALYSIS IN PPT.....

Al..... CO3..... N

Ar..... CO..... N

N..... H..... N

WF..... FE(TOT).....

CA..... HC03..... 79.5

CL..... 1.0%

Li..... K..... 57.

Gas ANALYSIS
ANALYSIS IN VOLUME %

CH₄..... N

C₂H₆..... 0.0

CO₂..... 0.1

HP..... 0

OTHER ANALYTICAL DATA..... H2O ANAL: S203 = 6. ppm. GAS ANAL: CO = 0. ppm.

QUALIFICATION FIELD..... N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COLLECTOR..... LAWSON, WILLIAM A.

AFFILIATION..... U.S. GEOLOGICAL SURVEY

CROSS INDEX..... NEH-316

REFERENCE..... ALLEN AND DAY, 1935

ISOLATES-100/003

ANALYSIS IN PPT.....

Al..... CO3..... N

Ar..... CO..... N

N..... H..... N

WF..... FE(TOT).....

CA..... HC03..... 79.5

CL..... 1.0%

Li..... K..... 57.

Gas ANALYSIS
ANALYSIS IN VOLUME %

CH₄..... N

C₂H₆..... 0.0

CO₂..... 0.1

HP..... 0

OTHER ANALYTICAL DATA..... H2O ANAL: S203 = 6. ppm. GAS ANAL: CO = 0. ppm.

QUALIFICATION FIELD..... N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COLLECTOR..... LAWSON, WILLIAM A.

AFFILIATION..... U.S. GEOLOGICAL SURVEY

CROSS INDEX..... NEH-316

REFERENCE..... ALLEN AND DAY, 1935

ISOLATES-100/004

ANALYSIS IN PPT.....

Al..... CO3..... N

Ar..... CO..... N

N..... H..... N

WF..... FE(TOT).....

CA..... HC03..... 79.5

CL..... 1.0%

Li..... K..... 57.

Gas ANALYSIS
ANALYSIS IN VOLUME %

CH₄..... N

C₂H₆..... 0.0

CO₂..... 0.1

HP..... 0

OTHER ANALYTICAL DATA..... H2O ANAL: S203 = 6. ppm. GAS ANAL: CO = 0. ppm.

QUALIFICATION FIELD..... N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COLLECTOR..... LAWSON, WILLIAM A.

AFFILIATION..... U.S. GEOLOGICAL SURVEY

CROSS INDEX..... NEH-316

REFERENCE..... ALLEN AND DAY, 1935

ISOLATES-100/005

ANALYSIS IN PPT.....

Al..... CO3..... N

Ar..... CO..... N

N..... H..... N

WF..... FE(TOT).....

CA..... HC03..... 79.5

CL..... 1.0%

Li..... K..... 57.

Gas ANALYSIS
ANALYSIS IN VOLUME %

CH₄..... N

C₂H₆..... 0.0

CO₂..... 0.1

HP..... 0

OTHER ANALYTICAL DATA..... H2O ANAL: S203 = 6. ppm. GAS ANAL: CO = 0. ppm.

QUALIFICATION FIELD..... N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COLLECTOR..... LAWSON, WILLIAM A.

AFFILIATION..... U.S. GEOLOGICAL SURVEY

CROSS INDEX..... NEH-316

REFERENCE..... ALLEN AND DAY, 1935

ISOLATES-100/006

ANALYSIS IN PPT.....

Al..... CO3..... N

Ar..... CO..... N

N..... H..... N

WF..... FE(TOT).....

CA..... HC03..... 79.5

CL..... 1.0%

Li..... K..... 57.

Gas ANALYSIS
ANALYSIS IN VOLUME %

CH₄..... N

C₂H₆..... 0.0

CO₂..... 0.1

HP..... 0

OTHER ANALYTICAL DATA..... H2O ANAL: S203 = 6. ppm. GAS ANAL: CO = 0. ppm.

QUALIFICATION FIELD..... N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COLLECTOR..... LAWSON, WILLIAM A.

AFFILIATION..... U.S. GEOLOGICAL SURVEY

CROSS INDEX..... NEH-316

REFERENCE..... ALLEN AND DAY, 1935

ISOLATES-100/007

ANALYSIS IN PPT.....

Al..... CO3..... N

Ar..... CO..... N

N..... H..... N

WF..... FE(TOT).....

CA..... HC03..... 79.5

CL..... 1.0%

Li..... K..... 57.

Gas ANALYSIS
ANALYSIS IN VOLUME %

CH₄..... N

C₂H₆..... 0.0

CO₂..... 0.1

HP..... 0

OTHER ANALYTICAL DATA..... H2O ANAL: S203 = 6. ppm. GAS ANAL: CO = 0. ppm.

QUALIFICATION FIELD..... N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COLLECTOR..... LAWSON, WILLIAM A.

AFFILIATION..... U.S. GEOLOGICAL SURVEY

CROSS INDEX..... NEH-316

REFERENCE..... ALLEN AND DAY, 1935

ISOLATES-100/008

ANALYSIS IN PPT.....

Al..... CO3..... N

Ar..... CO..... N

N..... H..... N

WF..... FE(TOT).....

CA..... HC03..... 79.5

CL..... 1.0%

Li..... K..... 57.

Gas ANALYSIS
ANALYSIS IN VOLUME %

CH₄..... N

C₂H₆..... 0.0

CO₂..... 0.1

HP..... 0

OTHER ANALYTICAL DATA..... H2O ANAL: S203 = 6. ppm. GAS ANAL: CO = 0. ppm.

QUALIFICATION FIELD..... N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COLLECTOR..... LAWSON, WILLIAM A.

AFFILIATION..... U.S. GEOLOGICAL SURVEY

CROSS INDEX..... NEH-316

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00064

GEOTHERMAL SAMPLE FILE

NONE OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - MAIN TERRACE
 LOCATION COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... PARK
 MAP REFERENCE... MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1929/00/00
 Sample Number... 38
 Temperature (C)... 73.
 WATER ANALYSIS
 GAS ANALYSIS IN PPM
 DATE/ANALYST... 1929/00/00 ALLEN, E. I.
 ANALYSIS IN VOLUME %
 CH4... 4 H2S... N
 CO2... 93. N2... 0 1.65
 CO... 0.45
 O2... 0.45
 QUALIFICATION FIELD, N2 = N2 + AR.
 REREFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX... NEH-317
 REFERENCED... ALLEN AND DAY, 1935

GEOTHERMAL SAMPLE FILE

NONE OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - MINERVA SPRINGS
 LOCATION COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... PARK
 MAP REFERENCE... MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1964/00/00
 Temperature (C)... 73.
 OTHER SAMPLE INFORMATION... WATER ISSUES FROM A WHITE TERRACE.
 GAS ANALYSIS
 DATE/ANALYST... 1964/00/00
 ANALYSIS IN MOLE %
 AIR... 0.0246
 CH4... 1 H2S... N
 CO2... 0.2... 1.6
 CO... 0.2... 0.5
 O2... 0.005
 REFERENCED ANALOGICAL DATA... Nt = 0.4 x 10(-5); KR = 5. x 10(-6); XE = 0. x 10(-7); PH = 7.

COORDINATES
 LAT/LONG... 44-58. N 110-42. W

RECORD 00065

RECORD 00066

RECORD 00067

GEOTHERMAL SURVEY IDENTIFICATION
 COMPILED BY * * * * * LAWSON, WILLIAM A.
 COMPILED AFFILIATION * * * * * U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX * * * * * NEH-324
 REFERENCED * * * * * MAJOR AND WASSERBURG, 1965

RECORD 00066

GEOTHERMAL SURVEY IDENTIFICATION
 NAME OF SAMPLE SOURCE * * * MAMMOTH HOT SPRINGS - NEW HIGHLAND TERRACE
 LOCATION TOWNSHIP-RANGE
 COUNTRY UNITED STATES
 STATE * * * * * WYOMING,
 COUNTY PARK
 MAP REFERENCE * * * * * MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONSTITUTION
 DATE COLLECTOR * * * * * 1965/06/00 GUNTER AND MUSGRAVE
 TEMPERATURE (C) * * * * * 74.
 GAS ANALYSIS
 DATE ANALYST * * * * * 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 AIR * * * 0
 CH4 * * * 0
 CO2 * * * 0.9.
 H2S * * * N
 N2 * * * N
 O2 * * * N

REF ID: * * * * *
 GEOTHERMAL SURVEY IDENTIFICATION
 COMPILED BY * * * * * LAWSON, WILLIAM A.
 COMPILED AFFILIATION * * * * * U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX * * * * * NEH-323
 REFERENCED * * * * * GUNTER AND MUSGRAVE, 1966

RECORD 00067

GEOTHERMAL SURVEY IDENTIFICATION
 NAME OF SAMPLE SOURCE * * * MAMMOTH HOT SPRINGS - PALETTE TERRACE
 LOCATION TOWNSHIP-RANGE
 COUNTRY UNITED STATES
 STATE * * * * * WYOMING,
 COUNTY PARK
 MAP REFERENCE * * * * * MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONSTITUTION
 DATE COLLECTOR * * * * * 1965/06/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER * * * * * 115
 GAS ANALYSIS
 DATE ANALYST * * * * * 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH4 * * * 0
 CO2 * * * 0.9.
 H2S * * * 0
 N2 * * * 0.55
 O2 * * * 0.33

QUALIFICATION FIELD * * * O2 = O2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY * * * * * LAWSON, WILLIAM A.
 COMPILED AFFILIATION * * * * * U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX * * * * * NEH-323

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00068
GEOGRAPHIC SAMPLE FILE
Name of Sample Source... MAMMOTH HOT SPRINGS - UNNAMED SPRING
Loc. & Typ. TOWNSHIP- RANGE
Country... UNITED STATES
State... WYOMING,
County... PARK
Map Reference... MAMMOTH 1:62500
Other Locality Information: IN SQUIRREL SPRINGS GROUP.
Sample Description_and_Conditions
Date Collector... 1930/00/00
Sample Number... 40
Gas Analysis
Date Analysis... 1930/00/00
Analysis In Volume %
CH4... 0.1
C2H6...
CO2... 90.
H2... 11
Qualification Field... N2 = N2 + AR.
Reference And Identification
Compiled By... LAWSON, WILLIAM A.
Compiler Affiliation... U.S. GEOLOGICAL SURVEY
Compiler Cross Index... NEH-319
Reference... ALLEN AND DAY, 1935
RECORD 00069
GEOGRAPHIC SAMPLE FILE
Name of Sample Source... MAMMOTH HOT SPRINGS - UNNAMED SPRING
Loc. & Typ. TOWNSHIP- RANGE
Country... UNITED STATES
State... WYOMING,
County... PARK
Map Reference... MAMMOTH 1:62500
Other Locality Information: NEAR WHITE ELEPHANT SPRING.
Sample Description_and_Conditions
Date Collector... 1930/00/00
Sample Number... 35
Gas Analysis
Date Analysis... 1930/00/00
Analysis In Volume %
CH4... 0.5
C2H6...
CO2... 99.
Other Qualification Data... CO = 0.
Qualification Field... N2 = N2 + AR.
Reference And Identification
Compiled By... LAWSON, WILLIAM A.
Compiler Affiliation... U.S. GEOLOGICAL SURVEY
Compiler Cross Index... NEH-314
Reference... ALLEN AND DAY, 1935

RECORD 00070

Geotherm_SAMPLEFILE
 NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - UNNAMED SPRING
 LOCATION... TOWNSHIP=RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... PARK
 MAP REFERENCE... MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1909/09/00
 SAMPLE NUMBER... X
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4... 4 H2S... 0.46
 C2H6... 02... 0.63
 CO2... 99... 0.06
 HC... 0.17

RÉFÉRENCE AU IDENTIFICATION
 COMPILED BY LAWSON, WILLIAM A.
 COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPLER CROSS INDEX... NEH-313
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00071

Geotherm_SAMPLEFILE
 NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - UNNAMED SPRING
 LOCATION... TOWNSHIP=RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... PARK
 MAP REFERENCE... MAMMOTH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1909/09/00
 SAMPLE NUMBER... IX
 OTHER SAMPLE INFORMATION... SULFUR SPRING.
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4... N H2S... N
 C2H6... 02... 0.67
 CO2... 99... 0.66

RÉFÉRENCE AU IDENTIFICATION
 COMPILED BY LAWSON, WILLIAM A.
 COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPLER CROSS INDEX... NEH-312
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00072

Geotherm_SAMPLEFILE
 NAME OF SAMPLE SOURCE... MURRIS GEYSER BASIN - "BATH-TUB" SPRING
 LOCATION... TOWNSHIP=RANGE
 COUNTRY... UNITED STATES
 LAT/LNG... 44-58. N 110-42. W

Geotherm_SAMPLEFILE
 NAME OF SAMPLE SOURCE... MURRIS GEYSER BASIN - "BATH-TUB" SPRING
 LOCATION... TOWNSHIP=RANGE
 COUNTRY... UNITED STATES
 LAT/LNG... 44-43. N 110-43. W

STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR 1930/00/00
 WHERE SAMPLE INFORMATION .. CONSTRUCTION WORK NEARBY.
 WHERE ANALYSIS
 DATE / ANALYST 1930/00/00
 A ANALYSIS IN PPM
 AL..... 44.
 H.....
 CR.....
 F.....
 NA.....
 FE+J..... 31.
 FE(TOT).....
 GA.....
 NH4.....
 HC03..... N
 CL..... 46.
 CO.....
 OTHER ANALYTICAL DATA..... H = 5.8 PPM; FE 2+ = 6. PPM; S2O3 = 0. PPM.
 REFERENCE AND IDENTIFICATION
 SAMPLED BY..... LAWSON, WILLIAM A.
 COLLECTOR AFFILIATION..... U.S. GEOLOGICAL SURVEY
 REFERENCED BY..... ALLEN AND DAY, 1933

ISOTOPEES_10/001
 L1...
 NO...
 NA...
 1...
 S102...
 327...
 274...
 S102...
 S04...
 813...
 46...
 N
 HC03...
 K..... 16.
 OTHER ANALYTICAL DATA..... H = 5.8 PPM; FE 2+ = 6. PPM; S2O3 = 0. PPM.
 REFERENCE AND IDENTIFICATION
 SAMPLED BY..... LAWSON, WILLIAM A.
 COLLECTOR AFFILIATION..... U.S. GEOLOGICAL SURVEY
 REFERENCED BY..... ALLEN AND DAY, 1933

RECORD 00073
 GEOTHERM FILE ID: 00204444
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE .. NORRIS Geyser BASIN - "BATH-TUB" SPRING
 LOCATION..... UNITED STATES
 STATE..... WYOMING,
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR 1928/00/00
 WHERE ANALYSIS
 DATE / ANALYST 1928/00/00
 A ANALYSIS IN PPM
 AL..... 0 5.3
 H.....
 CR.....
 F.....
 FE+3..... I
 FE(TOT).....
 GA.....
 NH4.....
 CL..... 6.
 CO.....
 OTHER ANALYTICAL DATA..... H = 0. PPM; FE 2+ = 0. PPM; S2O3 = 1. PPM
 REFERENCE AND IDENTIFICATION
 SAMPLED BY..... LAWSON, WILLIAM A.
 COLLECTOR AFFILIATION..... U.S. GEOLOGICAL SURVEY
 REFERENCED BY..... ALLEN AND DAY, 1935

ISOTOPEES_10/001
 NO...
 NA...
 1...
 S102...
 503...
 517...
 S102...
 S04...
 97...
 19...
 N
 HC03...
 K..... 52.
 OTHER ANALYTICAL DATA..... H = 0. PPM; FE 2+ = 0. PPM; S2O3 = 1. PPM
 REFERENCE AND IDENTIFICATION
 SAMPLED BY..... LAWSON, WILLIAM A.
 COLLECTOR AFFILIATION..... U.S. GEOLOGICAL SURVEY
 REFERENCED BY..... ALLEN AND DAY, 1935

RECORD 00074
 GEOTHERM FILE ID: 00204466
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE .. NORRIS Geyser BASIN - "BATH-TUB" SPRING
 LOCATION..... UNITED STATES
 STATE..... WYOMING,
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR 1928/00/00
 WHERE ANALYSIS
 DATE / ANALYST 1928/00/00
 A ANALYSIS IN PPM
 AL..... 0 5.3
 H.....
 CR.....
 F.....
 FE+3..... I
 FE(TOT).....
 GA.....
 NH4.....
 CL..... 6.
 CO.....
 OTHER ANALYTICAL DATA..... H = 0. PPM; FE 2+ = 0. PPM; S2O3 = 1. PPM
 REFERENCE AND IDENTIFICATION
 SAMPLED BY..... LAWSON, WILLIAM A.
 COLLECTOR AFFILIATION..... U.S. GEOLOGICAL SURVEY
 REFERENCED BY..... ALLEN AND DAY, 1935

COUNTRY..... UNITED STATES
 STATE..... WYOMING,
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION..... AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 1
 OTHER SAMPLE INFORMATION..... STENIA VENI.
GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH₄... 0.1 H2S... 2.5
 C₂H₆... 9.1 N2... 0.45
 CO₂... 0.4 O₂... N
 HP... 0.4
 OTHER ANALYTICAL DATA... STEAM/GAS = 25.0.
 QUALIFICATION FIELD... N2 = N2 + AR.
 REFERENCIAL AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-2HU
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00077

GEOETHERM-SAMPLE-FILE
 NAME OF SAMPLE SOURCE... NURRIS GEYSER BASIN - BLACK HERON CAULDRUN
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 68
 TEMPERATURE (C)..... 9.3.
GAS ANALYSIS
 ANALYSIS IN MOLE %
 AR... 0.12 N2... 3.31
 CH₄... 0.38 O₂... 3.2
 C₂H₆...
 CO₂... 0.5
 HP... 0.4
 REFERENCIAL AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-301
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES_ISOZU.

GEOTHERM FILE 101 0020449

RECORD 00078

GEOTHERM FILE 101 0020431

RECORD 00079

GEOETHERM-SAMPLE-FILE
 NAME OF SAMPLE SOURCE... NURRIS GEYSER BASIN - CINDER POOL (NO. 17)
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 68
 TEMPERATURE (C)..... 9.3.
GAS ANALYSIS
 ANALYSIS IN MOLE %
 AR... 0.12 N2... 3.31
 CH₄... 0.38 O₂... 3.2
 C₂H₆...
 CO₂... 0.5
 HP... 0.4
 REFERENCIAL AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-301
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

COUNTY..... PARK
MAP REFERENCE..... NORRIS JUNCTION 1:62500
OTHER LOCALITY INFORMATION: ONE-HUNDRED-SPRING PLAIN.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/00/00
SAMPLE NUMBER..... 7

WATER ANALYSIS

	ANALYSIS IN PPM					
AG.....	CO ₂ N	Li.....	S.....	N		
AL.....	3.	Cr.....	Mg.....	2.		
AS.....	1.2* ¹	F.....	Na.....			
BR.....	0.5* ²	Fe ⁺³ N	465.	SiO ₂ .	414.	
HA.....		PETOTI.				
HF.....		GA.....	NH ₄	28.	SO ₄ ..	188.
MI.....	H ₂	HCO ₃ N	NH ₄			
CA.....						
CL.....	764.	K.....				
CO.....						
GAS ANALYSIS IN VOLUME %						
CH ₄	0.1	H ₂ S.....	0.85			
C ₂ H ₆		N ₂	0.140			
CO ₂	98.	O ₂	0.05			
H ₂	N					

OTHER ANALYTICAL DATA... H₂O ANAL: H = 0.07 ppm.
QUALIFICATION FIELD: GAS ANAL: N₂ = N₂ + Ar. H₂O ANAL: H CALCULATED FROM B2021 AS CALCULATED FROM AS04.
REFERENCE AND IDENTIFICATION
COMPILE BY..... LAWSON, WILLIAM A.
CAPTIAN AFFILIATION..... U.S. GEOLOGICAL SURVEY
COMPILE CROSS INDEX..... NEH-286
REFERENCE..... ALLEN AND DAY, 1935

RECORD 0079

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - CONGRESS POOL
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
MAP REFERENCE..... NORRIS JUNCTION 1:62500
OTHER LOCALITY INFORMATION: SW OF LAKE NUPHAR, NE OF NORRIS MUSEUM, SE OF PURCELAIN BASIN.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/00/00
SAMPLE NUMBER..... 87

	ANALYSIS IN PPM					
AG.....	CO ₂ N	Li.....	S.....	N		
AL.....	3.	Cr.....	Mg.....	3.	SiO ₂ .	509.
BR.....		F.....	Na.....	458.	SO ₄ ..	503.
FE.....		FE(III).	Ca.....	NH ₄ ..		
HI.....	16.		NH ₄		21.	
CA.....	634.	HCO ₃ N				
CL.....		K.....				
CO.....						
OTHER ANALYTICAL DATA... H = 3. ppm.						

QUALIFICATION FIELD, FE 2+

REFERENCE AND IDENTIFICATION

COMPILED BY LAWSON, WILLIAM A.
COMPILER AFFILIATION U.S. GEOLOGICAL SURVEY
REFERENCE ALLEN AND DAY, 1935

RECORD 00080

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE ... NORRIS GEYSER BASIN - COHAL SPRING
LOCATION TOWNSHIP-RANGE
COUNTRY UNITED STATES
STATE WYOMING
COUNTY PARK
MAP REFERENCE NORRIS JUNCTION 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR 1900/07/00
SAMPLE NUMBER VI

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄	H2S
C ₂ H ₆	N ₂
CO ₂	45.54
	02.00
	6.3

REFERENCE AND IDENTIFICATION

COMPILED BY LAWSON, WILLIAM A.
COMPILER AFFILIATION U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX NEH-2/8
REFERENCE ALLEN AND DAY, 1935

RECORD 00081

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE ... NORRIS GEYSER BASIN - ECHINUS GEYSER

LOCATION TOWNSHIP-RANGE

COUNTRY UNITED STATES

STATE WYOMING

COUNTY PARK

MAP REFERENCE NORRIS JUNCTION 1:62500

OTHER LOCALITY INFORMATION: NE BANK OF TANTALUS CREEK, 1775 FT. SE OF GRAND LOOP ROAD ALONG TANTALUS CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR 1900/07/00

SAMPLE NUMBER VII

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄	H2S
C ₂ H ₆	N ₂
CO ₂	2.74
	02.00
	0.6

REFERENCE AND IDENTIFICATION

COMPILED BY LAWSON, WILLIAM A.
COMPILER AFFILIATION U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX NEH-2/9
REFERENCE ALLEN AND DAY, 1935

GEOTERM FILE ID: 0020421

COORDINATES
LAT/LONG... 44-43° N 110-42° WCOORDINATES
LAT/LONG... 44-43° N 110-42° WCOORDINATES
LAT/LONG... 44-43° N 110-42° W

ISOTOPES LOGON

RECORD 00082

GEOTHERM FILE ID: 0020440

NOM DU SAMPLÉ-ÉLÉMENT
NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - EMERALD SPRING

LOCALITY... TOWNSHIP-BRANGE

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... PARK

MAP REFERENCE... NORRIS JUNCTION 1:62500

OTHER LOCALITY INFORMATION: APPROX. 650 FT. SOUTH OF "BLACK GROWLER".

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 57

TEMPERATURE (C)..... RH.

GAS ANALYSIS DATE/CALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, H.C.

ANALYSIS IN MOLE % CH4... 3.4

C2H6... 0.0

CO2... 3.3

H2... 4.1

O2... 3.9

N2... 58.09

O2... 0.16

QUALIFICATION FIELD DATA... O2 = 02 + AK1 U90 FROM GUNTER AND MUSGRAVE, 1971.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-294

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00083

GEOTHERM FILE ID: 0020430

NOM DU SAMPLÉ-ÉLÉMENT
NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - GABLE SPRING (NO. 32)

LOCALITY... TOWNSHIP-BRANGE

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... PARK

MAP REFERENCE... NORRIS JUNCTION 1:62500

OTHER LOCALITY INFORMATION: SOUTHERN AREA, NORTH OF GRAY LAKES.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1970/00/00

SAMPLE NUMBER..... 6

WATER ANALYSIS

ANALYSIS IN ppm

Al... 2.0

H... 0.3.6

Na... 1.0

Fe... 0.0

Mg... 0.0

Ca... 5.0

Cl... 4.83.

CO2... 0.0

GAS ANALYSIS

ANALYSIS IN VOLUME %

ISOLOPES (0.000)

ISOLOPES (0.000)

ISOLOPES (0.000)

CH₄... 0.3
 C₂H₆...
 CO₂...
 H₂... 1.2
 OTHER ANALYTICAL DATA... H₂O ANAL: H = 1.4 PPM.
 QUALIFICATION FIELD?... N₂ = N₂ + AR. H₂O ANAL: H CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-2d5
 DIFFERENCE... ALLEN AND DAY, 1935

RECORD 00084

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - GEYSER NO. 27
 LOCATION TOWNSHIP-RANGE
 COUNTY...
 STATE... UNITED STATES
 COUNTY... WYOMING
 PARK
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SOUTH OF ECHINUS GEYSER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1930/06/00
 SAMPLE NUMBER... 27
 OTHER SAMPLE INFORMATION: IRREGULAR SINTER-LINED CRATER.
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG... CO₃..... N Li... MG... Na... S... N
 AL... 5... CR... F... 89... 5102... 464...
 BA... 0.18... FE+3... N FE(101)... 18... NB... 504... 637...
 HE... HI... GA... NH4...
 CA... 5... HC03... N
 CL... 21...
 CO... K... 75.
 OTHER ANALYTICAL DATA... H = 5.23 PPM.
 QUALIFICATION FIELD?... H CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 DIFFERENCE... ALLEN AND DAY, 1935

RECORD 00085

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - GREEN DRAGON SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTY...
 STATE... UNITED STATES
 COUNTY... WYOMING
 PARK
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965/07/00
 SAMPLE NUMBER... 59

GAS ANALYSIS
DATE/ANALYSIS 1965/01/00 GUNTER, B.D. AND MUSGRAVE, B.C.
AT/ANALYSIS IN MOLE %
CH₄... 0.4
C₂H₆.
CO₂... 94.
H₂... 1.
OTHER ANALYTICAL DATA... PH = 3.
QUALIFICATION FIELD, O₂ = 02 + AK.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-296
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00086

GEOTERM SAMPLE FILE
NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - IRIS SPRING (NO. 71)

LOCATION TOWNSHIP-RANGE
COUNTRY UNITED STATES

STATE WYOMING
COUNTY PARK

MAP REFERENCE... NORRIS JUNCTION 1:62500
OTHER LOCALITY INFORMATION: PURCELLAIN BASIN,
SAMPLE DESCRIPTION AND CONDITIONS

DATE / COLLECTOR..... 1930/00/00
WATER ANALYSIS

ANALYSIS IN ppm
AG.... CO₃.... N
Al.... CR.... S
B.... 3.0 F.... MG.... N
Ca.... 4.00 FE+3.... NA.... 336. S102. 476.
Hf.... FE(TOT).... 2. NB.... 504. 9b.
H₂I.... GA.... NH₄.... 2.
Ca.... HC0₃.... N
Cl.... 568. K.... 91.
Cl....

OTHER ANALYTICAL DATA... H = 0.72 ppm.
QUALIFICATION FIELD, O₂ = CALCULATED FROM 8203.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00087

GEOTERM SAMPLE FILE
NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - PEARL GEYSER
LOCATION TOWNSHIP-RANGE

UNITED STATES
WYOMING
PARK

MAP REFERENCE... NORRIS JUNCTION 1:62500
SAMPLE DESCRIPTION AND CONDITIONS

GEOTERM FILE ID: 0020420

LAT/LONG... 44-44. N 110-42. W

GEOTERM FILE ID: 0020441

LAT/LONG... 44-43. N 110-43. W

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 58
 TEMPERATURE (C)..... 85.
GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER, R.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH4..... 0.06
 C2H6.....
 CO2.... 1.01.
 H2.... 1
 OTHER ANALYTICAL DATA... PH = 6.5.
 QUALIFICATION FIELD..... N2 = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-295
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00088

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 24
 LOCATION TOWNSHIP-RANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 3
GAS ANALYSIS IN VOLUME %
 CH4... 0.25
 C2H6...
 CO2... 94.
 H2... 0.9

RECORD 00089

QUALIFICATION FIELD..... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-282
 REFERENCE..... ALLEN AND DAY, 1935

GAS ISOTOPES IN MOLE %
 CH4... N25... N
 C2H6... N2... 0 4.4
 CO2... 02... 0.9

RECORD 00090

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 70
 LOCATION TOWNSHIP-RANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 2
WATER ANALYSIS

CHARGE IMBALANCE (% DIFF) ... 0.0

ANALYSIS IN PPM

Al.....	N	CO3..... N
Al.....		CR.....
Al.....	W 4.1	F.....
Fe.....		FE+3..... N
Fe.....		FE(TOT) .. F
Fe.....		GA.....
Ca.....	1.	NH4..... N
Cl.....		NH4..... N
CO.....		HCO3..... 36.
CO.....	715.	K.....
CO.....		100.

GAS ANALYSIS IN VOLUME %

CH4	0.55	H2S	N
C2H6		N2	0 6.55
CO2	89.	O2	1.4
H2	2.3		

OTHER ANALYTICAL DATA... CO = 0%
QUALIFICATION FIELD... N2 = N2 + AR. (GAS ANAL) H2O ANAL & CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-281
REFERENCE..... ALLEN AND DAY, 1935

WALTER ANALYSIS IN PPM

Al.....	5.	CO3..... N
Al.....	W 4.4	CR.....
Al.....		F.....
Fe.....		FE+3..... N
Fe.....		FE(TOT) .. F
Ca.....	8.	GA.....
Cl.....	360.	NH4..... N
CO.....		HCO3..... N

OTHER SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 1

LOCATION..... JUNCTION TOWNSHIP-BRANGE
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
MAP REFERENCE..... NORRIS JUNCTION 1:62500
OTHER LOCALITY INFORMATION: EASTERN EDGE OF BASIN IN SOUTH SECTION.
SAMPLE DESCRIPTION AND CONDITION
DATE COLLECTED... 1930/07/00
OTHER SAMPLE INFORMATION... LARGE MUD SPRING.

ISOLATES (0200)

Al.....	5.	CO3..... N
Al.....	W 4.4	CR.....
Al.....		F.....
Fe.....		FE+3..... N
Fe.....		FE(TOT) .. F
Ca.....	8.	GA.....
Cl.....	360.	NH4..... N
CO.....		HCO3..... N

ISOLATES (0200)

ISOLATES (0200)

ISOLATES (0200)

ISOLATES (0200)

OTHER ANALYTICAL DATA... H = 0.04 ppm.
QUALIFICATION FIELD... H CALCULATED + HUM B202.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00090
GEOTHERM FILE ID: 0020403

COORDINATES
LAT/LONG... 44-43. N 110-42. W

RECORD 00090

RECORD 00091

GÉOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 15
 LOCATION TOWNSHIP-RANGE
 COUNTY... UNITED STATES
 STATE... WYOMING
 PARK
 COUNTY...
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION... AND CONDITIONS
 DATE COLLECTOR... 1930/00/00
 WATER ANALYSIS

ANALYSIS IN PPM

	CO ₃	N	Li	Na	Si	S	Cl	N
Al	1.	Cr	Mg	2.				
AS	0.5-9							
B	3-9	F						
HA		FE+3	2.					
Hf		Fe(Tot)						
HF		GA						
CA	5.	HC03	N					
CL	379.	K	77.					

OTHER ANALYTICAL DATA... H = 1.85 PPM. FE²⁺ = 2. PPM.
 QUANTIFICATION FIELD: AS CALCULATED FROM AS041 B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00092

GÉOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 18
 LOCATION TOWNSHIP-RANGE
 COUNTY... UNITED STATES
 STATE... WYOMING
 PARK
 COUNTY...
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION... AND CONDITIONS
 DATE COLLECTOR... 1930/00/00
 WATER ANALYSIS

ANALYSIS IN PPM

	CO ₃	N	Li	Na	Si	S	Cl	N
Al	4.	Cr	Mg	1.				
AS	0.1-2	F		152.	SiO ₂	274.		
B		FE+3	N					
HA		Fe(Tot)	5.					
Hf		GA						
HF		HC03						
CA	5.	K	52.					
CL	111.							

OTHER ANALYTICAL DATA... H = 0.39 PPM. ASO2 = 0.
 QUANTIFICATION FIELD: AS CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION

ISOTOPES_10/001

	CO ₃	N	Li	Na	Si	S	Cl	N
Al	4.	Cr	Mg	1.				
AS	0.1-2	F		152.	SiO ₂	274.		
B		FE+3	N					
HA		Fe(Tot)	5.					
Hf		GA						
HF		HC03						
CA	5.	K	52.					
CL	111.							

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 19
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS
 Charge Imbalance (% DIFF) ... 4.00
 Analysis in ppm
 AG..... CO3..... N
 AL..... CR.....
 AS..... H = 0.05
 B..... H = 3.9
 RA..... FE+3..... N
 HF..... FE(EDTA)..... 3.
 RI..... GA.....
 CA..... HC03..... 15.
 CL..... 150.
 CO..... K..... 42.
 OTHER ANALYTICAL DATA... H = 0. PPM; S203 = 1. PPM.
 QUALIFICATION FIELD... AS CALCULATED FROM AS041 B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00093

GEOTHERM FILE ID: 0020411
 LAT/LNG... 44-43.75 N 110-42. W

GEOTHERM FILE ID: 00094

GEOTHERM FILE ID: 0020424
 LAT/LNG... 44-43.75 N 110-42.47 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 20
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: EAST OF MUSEUM.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 OTHER SAMPLE INFORMATION: VERY MUDDY SPRING.
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR.....
 H..... F.....
 HF..... FE+3..... N
 RI..... FE(EDTA)..... 64.
 GA..... NH4.....
 CL..... 150.
 CO..... K..... 42.
 OTHER ANALYTICAL DATA... H = 0. PPM; S203 = 1. PPM.
 QUALIFICATION FIELD... AS CALCULATED FROM AS041 B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00094

GEOTHERM FILE ID: 0020424
 LAT/LNG... 44-43.75 N 110-42.47 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 20
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: EAST OF MUSEUM.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 OTHER SAMPLE INFORMATION: VERY MUDDY SPRING.
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR.....
 H..... F.....
 HF..... FE+3..... N
 RI..... FE(EDTA)..... 64.
 GA..... NH4.....
 CL..... 150.
 CO..... K..... 42.
 OTHER ANALYTICAL DATA... H = 0. PPM; S203 = 1. PPM.
 QUALIFICATION FIELD... AS CALCULATED FROM AS041 B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

CA..... 6..... HC03..... 14
 CL..... 1.....
 CO..... K..... 39.
 OTHER ANALYTICAL DATA... H = 19.3 PPM.
 QUALIFICATION FIELD... B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00095

GEOETHERM_SAMPLE_L1E
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 21
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/06/00
 WATER ANALYSIS
 CHARGE IMBALANCE (% DIFF)... 0.3
 ANALYSIS IN PPM
 AG..... CU3..... N
 AL..... N CR..... N
 B..... Q S+3 F..... N
 HA..... FE+3..... N
 HE..... FE (TOT). NB..... 19.
 HI..... GA..... NH4.....
 CA..... 6..... HC03..... 19.
 CL..... Blu.
 CO..... K..... 52.
 OTHER ANALYTICAL DATA... H = 0. PPM; TRACE OF FE 2+; S203 = 1. PPM.
 QUALIFICATION FIELD... B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00096

GEOETHERM_SAMPLE_L1E
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 23
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/06/00
 WATER ANALYSIS
 CHARGE IMBALANCE (% DIFF)... 2.2
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR..... 1

RECORD 00097

GEOETHERM_SAMPLE_L1E
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 24
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/06/00
 WATER ANALYSIS
 CHARGE IMBALANCE (% DIFF)... 0.3
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR..... 1

ISOLUOPES_L02001
 ISOLUOPES_L02002
 ISOLUOPES_L02003
 ISOLUOPES_L02004

H..... 0 4.5 F..... NA... 4.31. \$102. 717.
 HA..... FE+3. N
 HE..... FE(101).
 HI..... GA..... NH4.. 3. S04.. 41.
 CA..... 6. HC03.... 56.
 CL..... 742.
 CO..... K..... 107.
 OTHER ANALYTICAL DATA... H = 0. PPM. TRACE OF FE + S2O3 = 4. PPM.
 QUALIFICATION FIELD... CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECD 00097
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 25
 LOCATION TOWNSHIP-BRANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY PARK
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: PORCELAIN BASIN NEAR CONGRESS POOL.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR... 1930/08/00
 SAMPLE NUMBER..... 4

WATER ANALYSIS
 ANALYSIS IN PPM
 AG..... CO3.... N Li... S... N
 AL..... CR.... MG... 16. S102.
 H..... F.... NA... NH... 195.
 HE..... FE(101). 2. S04.. 158.
 CA..... HC03.... N
 CL..... 9.
 CO..... K..... 11.
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4... 0.2 H2S... 0.75
 C2H6... 0.2 N2... 0.16
 CO2... 91. O2... 0.05
 H2... 11.
 OTHER ANALYTICAL DATA... H2O ANAL: H = 2. PPM.
 QUALIFICATION FIELD... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-283
 REFERENCE..... ALLEN AND DAY, 1935

RECD 00098
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 30
 LOCATION TOWNSHIP-BRANGE
 COUNTRY UNITED STATES
 LAT/LONG... 44-43.81 N 110-42.03 W

STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: EAST EDGE OF BASIN, SOUTH OF CORAL SPRING.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 OTHER SAMPLE INFORMATION... LARGE DEEP POOL.
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG..... 2.0
 AL..... 3.1
 AS..... 0.49
 H..... 1.2
 HA.....
 HE.....
 HI.....
 CA..... 5.0
 CL..... 39.9
 CO.....
 OTHER ANALYTICAL DATA... H = 3.97 PPM.
 QUALIFICATION FIELD... B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 33
 LOCATION COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG..... 1.0
 AL..... 0.49
 AS..... 0.49
 H..... 1.2
 HA.....
 HE.....
 HI.....
 CA..... 4.0
 CL..... 5.0
 CO.....
 OTHER ANALYTICAL DATA... H = 0.6 PPM.
 QUALIFICATION FIELD... AS CALCULATED FROM A504; B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

ISOTOPES_00001
 ISOTOPES_00001
 LAT/LONG... 44-43.0 N 110-42.0 W
 RECORD 00099
 GEOTHERM FILE ID: 0020415

ISOTOPES_00001
 ISOTOPES_00001
 LAT/LONG... 44-43.0 N 110-42.0 W
 RECORD 00099
 GEOTHERM FILE ID: 0020415

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

GÉOTHERM-SAMPLE-ÉLÉ
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 6
 LOCATION TOWNSHIP-RANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY PARK
 PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS

CHARGE IMBALANCE (% DIFF) ... 1.0
 ANALYSIS IN ppm
 AG..... CO3..... N Li..... 6.0 S..... 1
 AL..... CR..... MG..... 1.0
 AS..... O 1.5
 B..... 0 4.8 Fe..... N NA..... 417.0 SiO2..... 492.0
 HA..... Fe+3..... N
 HE..... Fe(TOT)..... 2.0 NH..... S04..... 40.
 HI..... GA..... N
 CA..... HCO3..... 30.0
 CL..... 68.8
 CO..... K..... 59.
 OTHER ANALYTICAL DATA... H = 0. PPM; S2O3 = 2. PPM.
 QUALIFICATION FIELD..... AS CALCULATED FROM AS44; B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00102

GÉOTHERM FILE ID: 0020406
 COORDINATES
 LAT/LONG... 44-43° N 110-42° W
 GEOTHERM FILE ID: 0020406

COUNTRY TOWNSHIP-RANGE
 UNITED STATES

STATE WYOMING
 COUNTY PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS

CHARGE IMBALANCE (% DIFF) ... 0.5
 ANALYSIS IN ppm
 AG..... CO3..... N Li..... 1.0 S..... N
 AL..... CR..... MG..... NA..... 491.0 SiO2..... 530.
 B..... O 5.4 Fe..... N
 HA..... Fe+3..... N
 HE..... Fe(TOT)..... N
 HI..... GA..... S04..... 30.
 CA..... HCO3..... 56.

RECORD 00103

GÉOTHERM FILE ID: 0020417
 COORDINATES
 LAT/LONG... 44-43° N 110-43° W
 GEOTHERM FILE ID: 0020417

COUNTRY TOWNSHIP-RANGE
 UNITED STATES

STATE WYOMING
 COUNTY PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS

CHARGE IMBALANCE (% DIFF) ... 0.5
 ANALYSIS IN ppm
 AG..... CO3..... N Li..... 1.0 S..... N
 AL..... CR..... MG..... NA..... 491.0 SiO2..... 530.
 B..... O 5.4 Fe..... N
 HA..... Fe+3..... N
 HE..... Fe(TOT)..... N
 HI..... GA..... S04..... 30.
 CA..... HCO3..... 56.

CL. HU2. K..... 101.
 CO. OTHER ANALYTICAL DATA... H = 0. PPM. TRACE OF FE 2+ S203 = 4. PPM.
 QUALIFICATION FIELD:... H CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00104

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 62
 LOCATION LON/SHDE/BANGE

COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY PARK
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: NORTHEAST OF OPAL SPRING, JUST EAST OF HIGHWAY.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1930/04/00
 OTHER SAMPLE INFORMATION.. LARGE SPRING.

WATER ANALYSIS
 ANALYSIS IN PPM

AG.	2.	CO3..... N	Li....	S.... N
AL.		CR.....	Mg....	
B.	Q 0.76	F.....	Na....	127. SI02. 321.
HA.		FE ³⁺		
HF.		FE(TOL).... 2.	NB....	
BI.		GA.....	NH4....	504. 586.
CA.	4.	HCO3.... N		
CL.	176.	K.....	4H.	

CO. OTHER ANALYTICAL DATA... H = 8.9 PPM.
 QUALIFICATION FIELD:... H CALCULATED FROM B202; FE (TOT) IS FE2+.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00105

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 68
 LOCATION LON/SHDE/BANGE

COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY PARK
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1930/04/00

WATER ANALYSIS
 ANALYSIS IN PPM

AG.	N	CO3..... N	Li....	S.... N
AL.		CR.....	Mg....	
B.	Q 5.4	F.....	Na....	2. SI02. 341.

RECORD 00106

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 62
 LOCATION LON/SHDE/BANGE

COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY PARK
 MAP REFERENCE... NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1930/04/00

WATER ANALYSIS
 ANALYSIS IN PPM

	HA••••	FE+3••• N	NH•••	\$04••	147•
HF••••	FE (TO1)•••	3.			
HI••••	GA•••••		NH4•••		
CA••••	HCU3•••• N				
CL••••	566.				
CO••••		K••••••• 53.			
OTHER ANALYTICAL DATA... H = 0.39 PPM.					
SIGNALIFICATION FIELD B CALCULATED FROM 8202.					
REFERENCE AND IDENTIFICATION					
COMPILED BY	•••••	LAWSON, WILLIAM A.			
COMPILER AFFILIATION	•••••	U.S. GEOLOGICAL SURVEY			
REFERENCE	•••••	ALLEN AND DAY, 1935			

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE ••• NORRIS GEYSER BASIN - SPRING NO. 7
 LOCATION TOWNSHIP-RANGE
 COUNTRY ••••• UNITED STATES
 STATE ••••• WYOMING
 COUNTY ••••• PARK
 MAP REFERENCE ••• NORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION ••••• AND CONSTITUTIONS
 DATE COLLECTOR ••••• 1930/06/00

CHARGE IMBALANCE (% DIFF)	T	S....	T
A ANALYSIS IN PPM			
AG.....	CO3.....	N	
AL.....	CR.....		
AS.....	3 2.4		
Bi.....	3 4.7	F.....	
HA.....		FE 3.....	N
HF.....		FE (TOT).....	4.
BI.....		GA.....	
CA.....		HCO3.....	29.
CL.....	8V2.		
CO.....		K.....	120.
OTHER ANALYTICAL DATA...	H = 0.	PPM	PPM.
QUALIFICATION FIELD	S203	= 1.	
REFERENCE AND IDENTIFICATION			
COMPILED BY			LAWSON, WILLIAM A.
COMPILER AFFILIATION			U.S. GEOLOGICAL SURVEY
REFERENCE			ALLEN AND DAY, 1935

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE ••• MORRIS GEYSER BASIN - SPRING NO. 9
 LOCATION TOWNSHIP-RANGE
 COUNTRY ••• UNITED STATES
 STATE ••• WYOMING
 COUNTY ••• PARK
 MAP REFERENCE ••• MORRIS JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTED ••• 1970/08/00
 WATER ANALYSIS

FILE 101 0020407
RECORD 00106

GEOGRAPHIC FILE ID# 0020407

RECORD 00107

MAY 1948

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ANALYSIS IN PPM

Al.	CO3.....	N	L1....	6.	S....	N	<u>ISOTOPES_100/001</u>
Al.	CR.....		Mg....	2.			
AS.	3.						
AS.	1.9						
B.	4						
B.	5.4						
HA.	F.....	N	NA....	362.	S102.	539.	
HE.	.....	FE+3						
HE.	.....	FE(Tot).	2.	NB....		S04..	115.	
HI.	.....	UA.....		NH4..	N			
CA.	.....	4.						
CL.	.....	HC03.....	N					
CO.	.....	615.	K.....					
			97.					

OTHER ANALYTICAL DATA... H = 0.6 PPM.
 QUALIFICATION FIELD... B CALCULATED FROM B2021 AS CALCULATED FROM ASU4.
 REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00108

GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COUNTRY	.....	UNITED STATES	<u>COORDINATES</u>
STATE	.....	WYOMING	LAT/LONG...
COUNTY	.....	PARK	44-43.80 N 110-41.98 W

MAP REFERENCE... NORRIS JUNCTION 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 40M NORTH OF CONGRESS GEYSER.
 SAMPLE NUMBER... 1965/00/00

TEMPERATURE (C)... 92.

OTHER SAMPLE INFORMATION... MILKY WHITE POOL.

GAS ANALYSIS
 DATE/ANALYSIS... 1965/00/00 GUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

CH4.	.....	0.07	N2....	7.63
C2H6.			02....	0 1.5
CO2.				
H2.	.....	L 0.4		

OTHER ANALYTICAL DATA... PH = 3.9.
 QUALIFICATION FIELD... 02 = 02 + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-289
 REFERENCE... GUNTER AND MUSGRAVE, 1966

RECORD 00109

GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COUNTRY	.....	UNITED STATES	<u>COORDINATES</u>
STATE	.....	WYOMING	LAT/LONG...
COUNTY	.....	PARK	44-44. N 110-43. W

GEOTHERMAL FILE ID: 0020433

GEOTHERMAL FILE ID: 0020433

MAP REFERENCE..... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 2M NORTH OF VERMILLION POOL.
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 48

TEMPERATURE (C)..... 79.

GAS ANALYSIS
 ANALYSIS IN MOLE % DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

CH4... 0.42

C2H6... 0.42

CO2... 93.

H2... L 0.4

OTHER ANALYTICAL DATA... PH = 2.5.

QUALIFICATION FIELD.... O2 = O2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPLIER CROSS INDEX... NEH-288

REFERENCE..... GUNTER AND MUSGRAVE, 1966

GÉOTHERM-SAMPLE-FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE... WYOMING

COUNTY... PARK

MAP REFERENCE..... NORRIS JUNCTION 1:62500

OTHER LOCALITY INFORMATION: 1M SOUTH OF BATHTUB SPRING

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION..... 1965/00/00

SAMPLE NUMBER..... 53

TEMPERATURE (C)..... 90.6

GAS ANALYSIS
 ANALYSIS IN MOLE % DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

CH4... 0.05

C2H6... 0.05

CO2... 94.

H2... L 0.4

OTHER ANALYTICAL DATA... PH = 5.2.

QUALIFICATION FIELD.... O2 = O2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPLIER CROSS INDEX... NEH-292

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00110

GEOOTHERM FILE ID: 0020439

COORDINATES

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE... WYOMING

COUNTY... PARK

MAP REFERENCE..... NORRIS JUNCTION 1:62500

OTHER LOCALITY INFORMATION: 1M SOUTH OF BATHTUB SPRING

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION..... 1965/00/00

SAMPLE NUMBER..... 53

TEMPERATURE (C)..... 90.6

GAS ANALYSIS
 ANALYSIS IN MOLE % DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

CH4... 0.05

C2H6... 0.05

CO2... 94.

H2... L 0.4

OTHER ANALYTICAL DATA... PH = 5.2.

QUALIFICATION FIELD.... O2 = O2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPLIER CROSS INDEX... NEH-292

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00111

GEOOTHERM FILE ID: 0020439

COORDINATES

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 3M NORTHWEST OF BATHTUB SPRING.
 SAMPLE DESCRIPTION AND CONDITION: SAMPLE
 DATE/COLLECTOR: 1965/00/00
 SAMPLE NUMBER: 52
 TEMPERATURE (C)..... 92.

GAS ANALYSIS
 DATE/ANALYST: 1965/00/00 GUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MULE %
 CH4... 0.06
 C2H6... 96.
 CO2... L 0.4
 H2... QUALIFICATION FIELD = 6.0
 OTHER ANALYTICAL DATA... PH = 6.0
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-291
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

LSDIOPES_000201

N2... 0.00
 O2... 0 0.31

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: NEAR HURRICANE POOL.
 SAMPLE DESCRIPTION AND CONDITION: SAMPLE
 DATE/COLLECTOR: 1930/00/00
 SAMPLE NUMBER: 5

GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4... 0.2
 C2H6... 95.
 CO2... 0.5

QUALIFICATION FIELD = N2 + AK.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-284
 REFERENCE..... ALLEN AND DAY, 1935

LSDIOPES_000201

N2S... N 3.85
 O2... 0 0.25

QUALIFICATION FIELD = N2 + AK.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-284
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00113

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION COUNTRY..... UNITED STATES
 STATE..... WYOMING

GEOETHERM FILE ID: 0020448

CODONIALES
 LAT/LNG... 44-43.58 N 110-42.42 W

GEOETHERM FILE ID: 0020448

CODONIALES
 LAT/LNG... 44-43.58 N 110-42.42 W

COUNTY..... PARK
MAP REFERENCE..... NORRIS JUNCTION 1:62500
OWNER LOCALITY INFORMATION: 2UM SOUTH OF FOOTBRIDGE ON WEST SIDE OF TRAIL PAST ECHINUS GEYSER.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1965/06/00
SAMPLE NUMBER..... 67
TEMPERATURE (C)..... 91
OTHER SAMPLE INFORMATION: COLLOIDAL SULFUR POOL.
GAS ANALYSIS
DATE/ANALYST..... 1965/00/00 GUNTER, H.D. AND MUSGRAVE, H.C.
ANALYSIS IN MOLE %
AR:... 0.03
CH4:... N
C2H6:...
CO2:... 98.
H2:...
N2:... 2.04
O2:... 0.1

REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX..... NEH-390
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00114

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: NORRIS GEYSER BASIN - UNNAMED SPRING
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
MAP REFERENCE..... YELLOWSTONE NATIONAL PARK 1:125000
OTHER LOCALITY INFORMATION: 2UM EAST OF ECHINUS GEYSER.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1965/06/00
SAMPLE NUMBER..... 66
TEMPERATURE (C)..... 70
OTHER SAMPLE INFORMATION: YELLOW POOL.
GAS ANALYSIS
DATE/ANALYST..... 1965/00/00 GUNTER, H.D. AND MUSGRAVE, H.C.
ANALYSIS IN MOLE %
AR:... 1
CH4:... 0.06
C2H6:...
CO2:... 99.
H2:... L 0.4

OTHER ANALYTICAL DATA: PH = 2.9.

ISOTOPE (%/‰)

N2:... 0.85
O2:... 1

REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX..... NEH-299
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00115

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: NORRIS GEYSER BASIN - UNNAMED SPRING

GEOTHERM FILE ID: 0020447

GEOTHERM FILE ID: 0020457

GÉOTHERM
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 PARK
 COUNTY.....
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: REALGAR CREEK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 85
 GAS ANALYST
 DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %

AR... 0.03
 CH4... 0.05
 C2H6...
 CO2... 96.

H2... N
 RÉFÉRENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-306
 RFFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES_000701

GÉOTHERM SAMPLE ÉLÉ
 NAME OF SAMPLE SOURCE.... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: REALGAR CREEK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 84
 GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %

AR... 0.09
 CH4... 0.21
 C2H6...
 CO2... 95.

H2... N
 RÉFÉRENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-305
 RFFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00116

GÉOTHERM
 LAT/LONG.... 44-43.8 N 110-42.5 W
ÉQUORNAIRES
 LAT/LONG.... 44-43.8 N 110-42.5 W

ISOTOPES_000701

RECORD 00117

GÉOTHERM
 LAT/LONG.... 44-43.7 N 110-42.6 W
ÉQUORNAIRES
 LAT/LONG.... 44-43.7 N 110-42.6 W

GEOTHERM FILE ID: 0020455

GÉOTHERM SAMPLE ÉLÉ
 NAME OF SAMPLE SOURCE.... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES

STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: ABOUT 25M NORTHEAST OF NO. 71.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/00 GUNTER, B.D.
 SAMPLE NUMBER..... 73
 TEMPERATURE (C)..... 85°
 OTHER SAMPLE INFORMATION: MURKY DARK SPRING WITH SMALL OVERFLOW.
 GAS ANALYSIS
 DATE/ANALYST..... 1971/06/00 GUNTER, B.D.
 ANALYSIS IN MOLE %
 AR... 0.36
 CH4... 1
 C2H6... 02... 10.3
 CO2... 81... 02... 1.8
 H2... N

RÉFÉRENCE ET IDENTIFICATION
 COMPLIÉE PAR LAWSON, WILLIAM A.
 COMPILEUR AFFILIATION: U.S. GEOLOGICAL SURVEY
 COMPILEUR CROSS INDEX: NEH-309
 DIFFERENCE: GUNTER, 1973

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 25M NORTHEAST OF NO. 71.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 73
 TEMPERATURE (C)..... 73°
 GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

AR... 1
 CH4... 0.14
 C2H6... 02... 3.28
 CO2... 96... 02... 0.09

RÉFÉRENCE ET IDENTIFICATION
 COMPLIÉE PAR LAWSON, WILLIAM A.
 COMPILEUR AFFILIATION: U.S. GEOLOGICAL SURVEY
 COMPILEUR CROSS INDEX: NEH-309
 DIFFERENCE: GUNTER AND MUSGRAVE, 1966

RECORD 00118

GEOTHERM FILE ID: 0020454

COORDINATES
 LAT/LONG... 44-43.7 N 110-42.6 W

RECORD 00119

GEOTHERM FILE ID: 0020453

COORDINATES

ISOTOPES_100Z01

ISOTOPES_100Z01

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 25M NORTHEAST OF NO. 71.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 73
 TEMPERATURE (C)..... 73°
 GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

AR... 1
 CH4... 0.14
 C2H6... 02... 3.28
 CO2... 96... 02... 0.09

RÉFÉRENCE ET IDENTIFICATION
 COMPLIÉE PAR LAWSON, WILLIAM A.
 COMPILEUR AFFILIATION: U.S. GEOLOGICAL SURVEY
 COMPILEUR CROSS INDEX: NEH-309
 DIFFERENCE: GUNTER AND MUSGRAVE, 1966

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: ABOUT 5M NORTH OF NO. 71.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/00 GUNTER, B.O.
 SAMPLE NUMBER..... 72
 TEMPERATURE (C)..... 9.0
 OTHER SAMPLE INFORMATION: SMALL POOL. COULD BE SAME SPRING AS NO. 72, GUNTER AND MUSGRAVE, 1966.
 GAS ANALYSIS
 DATE/ANALYSIS..... 1971/06/00 GUNTER, B.O.
 ANALYSIS IN MOLE %
 AR.... 1.5
 CH4.... T
 C2H6....
 CO2.... 22.0
 H2.... N
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-308
 REFERENCE..... GUNTER, 1973

LAT/LONG... 44-43.8 N 110-42.7 W

GEOOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: NURRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 2M NORTH OF NO. 71.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 72
 TEMPERATURE (C)..... 9.0
 GAS ANALYSIS
 DATE/ANALYSIS..... 1965/06/00 GUNTER, B.O. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 AR.... T
 CH4.... 0.11
 C2H6....
 CO2.... 99.0
 H2.... N

REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-303
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES_100001

RECORD 00120
 GEOOTHERM FILE ID: 0020452
 LAT/LONG... 44-43.8 N 110-42.7 W

COUNTRY..... LAT/LONG...
 UNITED STATES 44-43.8 N 110-42.7 W

RECORD 00121
 GEOOTHERM FILE ID: 0020451
 LAT/LONG...
 NAME OF SAMPLE SOURCE: NURRIS GEYSER BASIN - UNNAMED SPRING

LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
MAP REFERENCE..... NORRIS JUNCTION 1:62500
OBJECT LOCALITY INFORMATION: WEST SIDE OF PURCELAIN BASIN UNDER A ROCK LEDGE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1971/07/00 GUNTER, H.D.
SAMPLE NUMBER..... 11
TEMPERATURE (°C)..... 90°
OTHER SAMPLE INFORMATION: LARGE COLLOIDAL SULFUR POOL WITH VIGOROUS ACTION AND NO OVERFLOW.
GAS ANALYSIS
DATE ANALYST..... 1971/07/00 GUNTER, H.D.
ANALYSIS IN MOLE %
AR.... 0.1
CH4.... 1
C2H6.... 0.1
CO2.... 95.0
N2.... 0.04
O2.... 0.31

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX..... NEH-307
REF ID: JCF..... GUNTER, 1973

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: NORRIS GEYSER BASIN - UNNAMED SPRING
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
MAP REFERENCE..... NORRIS JUNCTION 1:62500
OBJECT LOCALITY INFORMATION: UNDER A LEDGE, WEST SIDE OF PURCELAIN BASIN.
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1965/07/00
SAMPLE NUMBER..... 71
TEMPERATURE (°C)..... 90°
OTHER SAMPLE INFORMATION: LARGE COLLOIDAL SULFUR POOL.
GAS ANALYSIS
DATE ANALYST..... 1965/07/00 GUNTER, H.D. AND MUSGRAVE, H.C.

ANALYSIS IN MOLE %
AR.... 0.04
CH4.... 0.38
C2H6.... 0.01
CO2.... 96.0
N2.... 0.04
O2.... 0.31

GEOTHERM FILE ID: 0020450

COORDINATES
LAT/LONG... 44-43.8 N 110-42.7 W
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
MAP REFERENCE..... NORRIS JUNCTION 1:62500
OBJECT LOCALITY INFORMATION: UNDER A LEDGE, WEST SIDE OF PURCELAIN BASIN.
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1965/07/00
SAMPLE NUMBER..... 71
TEMPERATURE (°C)..... 90°
OTHER SAMPLE INFORMATION: LARGE COLLOIDAL SULFUR POOL.
GAS ANALYSIS
DATE ANALYST..... 1965/07/00 GUNTER, H.D. AND MUSGRAVE, H.C.

ANALYSIS IN MOLE %
AR.... 0.04
CH4.... 0.38
C2H6.... 0.01
CO2.... 96.0
N2.... 0.04
O2.... 0.31

REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX..... NEH-307
REF ID: JCF..... GUNTER AND MUSGRAVE, 1966

ISOTOPES_JOURNAL

RECORD 00122

RECORD 00123

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE... NORRIS JUNCTION 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1964/00/00

SAMPLE NUMBER... 12

TEMPERATURE (C)... 80.

OTHER SAMPLE INFORMATION.. COLLOIDAL, BOILING WATER POOL.

GAS ANALYSIS

ANALYSIS IN VOLUME %

AR...	0.5H		H2S...	T
CH...	2.2		N2...	2.9
C2H6...			O2...	

CO2... 96.

QUALIFICATION FIELD... AR IN PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILED CROSS INDEX... NTH-310

REFERENCE... MAZOK AND WASSERBURG, 1965

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED STEAM VENT

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE... NORRIS JUNCTION 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1965/00/00

SAMPLE NUMBER... 51

GAS ANALYSIS

DATA/ANALYST... 1965/00/00 WINTER, H.U. AND MUSGRAVE, H.C.

ANALYSIS IN VOLUME %

CH4...	0.04		N2...	0.66
C2H6...	99.		O2...	0.07

H2... 0.4

ISOTOPES_100Z01

GEOTHERM FILE ID: 0020458

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILED CROSS INDEX... NTH-310

REFERENCE... WINTER AND MUSGRAVE, 1960

RECORD 00124

GEOTHERM FILE ID: 0020437

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED STEAM VENT

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE... NORRIS JUNCTION 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1965/00/00

GAS ANALYSIS

DATA/ANALYST... 1965/00/00 WINTER, H.U. AND MUSGRAVE, H.C.

ANALYSIS IN VOLUME %

CH4...	0.04		N2...	0.66
C2H6...	99.		O2...	0.07

RECORD 00125

GEOFORM SAMPLE FILE
NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UPPER GREEN DRAGON SPRING

LOCATION
COUNTRY..... UNITED STATES
STAFF..... WYOMING,
COUNTY..... PARK
MAP REFERENCE..... NORRIS JUNCTION 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1965/09/90
SAMPLE NUMBER..... 60
TEMPERATURE (C)..... 94.

GAS ANALYSIS
DATE ANALYSIS..... 1965/09/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %
AR.... 1
CH4.... 1
C2H6....
CO2.... 97.00
H2.... 1
N2.... 3.36
O2.... 1

OTHE R ANALYTICAL DATA: PH = 3.

REF ID AND IDENTIFICATION
CAMP FIELD AY..... LAWSON, WILLIAM A.
CAMP FIELD AFFILIATION..... U.S. GEOLOGICAL SURVEY
CAMP FIELD CROSS INDEX..... NEH-27
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00126

GEOFORM SAMPLE FILE
NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - VERNILLION POOL

LOCATION
COUNTRY..... UNITED STATES
STAFF..... WYOMING,
COUNTY..... PARK
MAP REFERENCE..... NORRIS JUNCTION 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
D. TECNIC ECLIPSE..... 1965/09/00
SAMPLE NUMBER..... 47
TEMPERATURE (C)..... 94.

GAS ANALYSIS
DATE ANALYSIS..... 1965/09/00 GUNTER, B.D. AND WASSERBURG, B.C.
ANALYSIS IN MOLE %
CH4.... 0.93

O2.... 5.62
CO2.... 94.
N2.... 0.4

OTHE R ANALYTICAL DATA: PH = 2.2.
REF ID AND IDENTIFICATION
CAMP FIELD AY..... LAWSON, WILLIAM A.
CAMP FIELD AFFILIATION..... U.S. GEOLOGICAL SURVEY
CAMP FIELD CROSS INDEX..... NEH-27
REFERENCE..... GUNTER AND WASSERBURG, 1966

RECORD 00126

GEOFORM SAMPLE FILE
NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - VERNILLION POOL

LOCATION
COUNTRY..... UNITED STATES
STAFF..... WYOMING,
COUNTY..... PARK
MAP REFERENCE..... NORRIS JUNCTION 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
D. TECNIC ECLIPSE..... 1965/09/00
SAMPLE NUMBER..... 47
TEMPERATURE (C)..... 94.

GAS ANALYSIS
DATE ANALYSIS..... 1965/09/00 GUNTER, B.D. AND WASSERBURG, B.C.
ANALYSIS IN MOLE %
CH4.... 0.93

O2.... 5.62
CO2.... 94.
N2.... 0.4

OTHE R ANALYTICAL DATA: PH = 2.2.
REF ID AND IDENTIFICATION
CAMP FIELD AY..... LAWSON, WILLIAM A.
CAMP FIELD AFFILIATION..... U.S. GEOLOGICAL SURVEY
CAMP FIELD CROSS INDEX..... NEH-27
REFERENCE..... GUNTER AND WASSERBURG, 1966

RECORD 00127

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - CALCITE NO. 1

LOCATION TOWNSHIP RANGE

COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... PARK

GEOLOGIC PROVINCE... YELLOWSTONE PLATEAU

MAP REFERENCE... TOWER JUNCTION 1:62500

OTHER LOCALITY INFORMATION: EAST OF BUMPUS BUTTE BY YELLOWSTONE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE COLLECTOR... 1965/09/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER... 161

TEMPERATURE (C)... 92.5

GAS ANALYSIS

DATE/ANALYST... 1965/09/06 GUNTER, H.D. AND MUSGRAVE, H.C.
ANALYSIS IN MOLE %

CH4...	1	N2...	4.19
C2H6...		O2...	0.16
CO2...	96.		
H2...	6.4		

OTHER ANALYTICAL DATA... PH = 7.9.

QUALIFICATION FIELD... O2 = O2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPLIANT AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPLIANT CROSS INDEX... NEH-352

GUNTER AND MUSGRAVE, 1966

RECORD 00128

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - CALCITE NO. 2

LOCATION TOWNSHIP RANGE

COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... PARK

GEOLOGIC PROVINCE... YELLOWSTONE PLATEAU

MAP REFERENCE... TOWER JUNCTION 1:62500

OTHER LOCALITY INFORMATION: EAST OF BUMPUS BUTTE BY YELLOWSTONE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE COLLECTOR... 1965/09/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER... 102

TEMPERATURE (C)... 89.4

GAS ANALYSIS

DATE/ANALYST... 1965/09/06 GUNTER, H.D. AND MUSGRAVE, H.C.
ANALYSIS IN MOLE %

CH4...	1	N2...	1.1
C2H6...	99.		
H2...	6.4		

OTHER ANALYTICAL DATA... PH = 7.7.

QUALIFICATION FIELD... O2 = O2 + AR.

REFERENCE AND IDENTIFICATION

CAPTIONED BY.....
C. W. TUCK AFTILLIATION.....
C. O. TULL CROSS INDEX.....
REFERENCE.....
GUNTER AND MUSGRAVE, 1966

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - CALCITE SPRINGS
 LOCATION COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GOVT. ORIGINIC PROVINCE..... YELLOWSTONE PLATEAU
 MOP PERIOD..... TOWER JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: AT EXTREME NORTH END OF AREA.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR..... 1930/00/00
 MAF-Q ANALYSIS

CHARGE/ANALYSIS (% DIFF) ... 2.4
 ANALYSIS IN PPM
 AG..... CO3..... LI...
 AL..... CR..... MG...
 A..... F..... 4...
 NE..... FE(Fe) .. 209...
 MI..... SA..... NB...
 CA..... HCO3..... NH4...
 CL..... 12... 24...
 CO..... K..... 174...
 CL..... 92.

OTHER ANALYTICAL DATA: S203 = 21. ppm.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 C. O. TULL AFTILLIATION..... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - CALCITE SPRINGS
 LOCATION COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GOVT. ORIGINIC PROVINCE..... YELLOWSTONE PLATEAU
 MOP PERIOD..... TOWER JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SOUTH END OF TALUS SLOPE, 15 FT FROM RIVER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 34
 DEPOSITS OR ALTERATION..... OPAL AND ALUMINITE; SECONDARY PYRITE PRESENT.
 MAF-Q ANALYSIS

CHARGE/ANALYSIS (% DIFF) ... 1.0
 ANALYSIS IN PPM
 AG..... CO3..... LI...
 AL..... CR..... MG...
 CL..... F..... NB...
 H..... 205...
 SIU2... 205.

RECORD 00129

GEOTHERM FILE ID: 0020504

COORDINATES
 LAT/LONG... 44-54-65 N 110-23-78 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GOVT. ORIGINIC PROVINCE..... YELLOWSTONE PLATEAU
 MOP PERIOD..... TOWER JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: AT EXTREME NORTH END OF AREA.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR..... 1930/00/00

ISOLATES_02002

LI...
 MG...
 NA...
 NB...
 NH4...
 HCO3...

24...

174...

24.1...

K.....

92.

OP102...
 S102...
 S04...

REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.

C. O. TULL AFTILLIATION..... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00130

GEOTHERM FILE ID: 0020502

COORDINATES
 LAT/LONG... 44-54-65 N 110-23-78 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GOVT. ORIGINIC PROVINCE..... YELLOWSTONE PLATEAU
 MOP PERIOD..... TOWER JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SOUTH END OF TALUS SLOPE, 15 FT FROM RIVER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 34
 DEPOSITS OR ALTERATION..... OPAL AND ALUMINITE; SECONDARY PYRITE PRESENT.

ISOLATES_02002

LI...
 MG...
 NA...
 NB...
 HCO3...

205...
 SIU2... 205.

41.	Hf	Hf (TnI)	2.	NH ₄ •••	344•
41.	H1	(H ₄ ••••)		NH ₄ •••	
CA	25.	HC ₂ S••••	45.		
CL	244.				
Cn		K•••••	95.		
ANALYSIS IN VOLUME %					
CH ₄ ••	1			H ₂ S•••	5.5
C ₂ H ₆ ••				H ₂ •••	9.1.3
CO ₂ ••	9.3.			U ₂ •••	N
H ₂ •••	1				
OTHER ANALYTICAL DATA. H₂O ANAL: S2O₃ = 10. PPM.					
QUALIFICATION FIELD ••• N₂=N₂ + AR.					
REFINING AND IDENTIFICATION					
COMPILED BY				LAWSON, WILLIAM A.	
CHARTER AFFILIATION				U.S. GEOLOGICAL SURVEY	
COMPLILER CHART INDEX				NEH-348	
REFERENCE				ALLEN AND DAY	1945

ISSUES 100/101

RECORD 00131
GEOTHERM FILE ID: 0020506
NAME OF SAMPLE-TITLE: YELLOWSTONE - CHOCOLATE POTS
LOCATION: LOWER SHIRE-RANGE
COUNTRY: UNITED STATES
STATE: WYOMING
COUNTY: PARK
GEOLOGIC PROVINCE: YELLOWSTONE PLATEAU
MAP REFERENCE: NORRIS JUNCTION 1:62500
MAP SHEET NUMBER: 1
LOCALITY INFORMATION: EAST SIDE OF GIBBON RIVER; 8M ABOVE RIVER; SOUTH FEATURE.
SOURCE OF DESCRIPTION AND CONTRIBUTIONS: SAMPLER

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RECORD 00132
 GEOTHERM FILE ID: 00205
 001-001 SAMPLE SITE
 NAME OF SAMPLE SOURCE... YELLOWSIDE - CHOCOLATE POT
 LOCALITY... IOWA CITY-KARAT
 COUNTRY... UNITED STATES
 COORDINATES
 LATITUDE... 44-42.77 N
 LONGITUDE... 0-44.67 W

STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE..... YELLOWSTONE PLATEAU
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION..... 40° N NORTH OF NO. 45.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/09/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 46
 TEMPERATURE (C)..... 52.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/09/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH₄..... 14
 C₂H₆..... 94.
 CO₂..... 0.4
 H₂..... 0.4
 OTHER ANALYTICAL DATA.... PH = 6.2 + AH.
 QUALIFICATION FIELD..... NO. 42 + AH.
 REFERENCE AND IDENTIFICATION
 COMPANY..... LAWSON, WILLIAM A.
 COMPANY AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPANY CROSS INDEX..... NEH-329
 REFERENC..... GUNTER AND MUSGRAVE, 1966

RECORD 00133

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE..... DEVIL'S INPUT
 LOCATION..... TOWER JUNCTION 1:62500
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... TOWER JUNCTION 1:62500
 OTHER LOCALITY INFORMATION..... WASHBURN SPRINGS, SOUTH SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/09/00 GUNTER, H.D.
 SAMPLE NUMBER..... 90
 GAS ANALYSIS
 ANALYSIS IN MOLE %
 AR..... 0.90
 CH₄..... 12.
 C₂H₆.....
 CO₂..... 8.7.
 H₂..... 5.
 REFERENC..... AND IDENTIFICATION
 COMPANY..... LAWSON, WILLIAM A.
 COMPANY AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPANY CROSS INDEX..... NEH-344
 REFERENC..... GUNTER, 1973.

RECORD 00133

GEOETHERM FILE ID: 0020494
 LAT/LONG.... 44-45.53 N 110-25.85 W
 COORDINATES
 LAT/LONG.... 44-45.53 N 110-25.85 W

RECORD 00133

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE..... DEVIL'S INPUT
 LOCATION..... TOWER JUNCTION 1:62500
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... TOWER JUNCTION 1:62500
 OTHER LOCALITY INFORMATION..... WASHBURN SPRINGS, SOUTH SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/09/00 GUNTER, H.D.
 SAMPLE NUMBER..... 90
 GAS ANALYSIS
 ANALYSIS IN MOLE %
 AR..... 0.90
 CH₄..... 12.
 C₂H₆.....
 CO₂..... 8.7.
 H₂..... 5.
 REFERENC..... AND IDENTIFICATION
 COMPANY..... LAWSON, WILLIAM A.
 COMPANY AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPANY CROSS INDEX..... NEH-344
 REFERENC..... GUNTER, 1973.

RECORD 00134

GEOETHERM FILE ID: 0020492
 LAT/LONG.... 44-45.53 N 110-25.85 W
 COORDINATES
 LAT/LONG.... 44-45.53 N 110-25.85 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 PARK
 COUNTY.....
 MAP REFERENCE..... TOWER JUNCTION 1:62500
 OWNER LOCALITY INFORMATION WASHBURN SPRINGS, SOUTH SIDE.
 SAMPLER WESTERMAN AND COMPANY
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS
 ANALYSIS IN PPM
 AB..... CO₂..... Li..... 0.4
 AL..... 3.7 CR..... Mg..... 12.
 B..... 0.8 U..... F..... NA..... 25.
 BE..... FE (10%) I..... NH.....
 RI..... GA..... NH₄.....
 CA..... 4.9 H₂S..... 5.1
 CD..... CL..... 5.8
 CO.....
 OTHER ANALYTICAL DATA... AS₂O₃ = 0. ppm; CO₂ = 64.7 ppm; H =
 DUAL IFICATION FIELD; ^a CALCULATED FROM B203.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 DIFFERENTIATION..... ALLEN AND DAY, 1935

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - DEVIL'S INKPOUT
 LOCATION TOWNSHIP= RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... JUNCTION 1:645000
 OTHER LOCALITY INFORMATION: "ASHURN SPRINGS" SOUTH END.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTED..... 1965/00/00
 SAMPLE NUMBER..... 90
 TEMPERATURE (C)..... 81.2
 GAS ANALYSIS
 DATE ANALYZED..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %

RECORD 00136
GEOGRAPHIC FILE I.D: 0020500
WEDNESDAY_SAVILLE-FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - MUD VOLCANO
LOC VILLAGE WYOMING LAT/LONG... 44-37-28 N 110-25-58 W
COUNTRY..... UNITED STATES COORDINATES
STATE..... WYOMING
CITY..... PARK
MAP REFERENCE... CANYON VILLAGE 1:62500
OTHER LOCALITY INFORMATION: SW OF YELLOWSTONE RIVER BY DRAGONS MOUTH SPRING.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1930/JUL/00
TEMPERATURE (C)... 85.5 RECORD 00137
TEMPERATURE (F)... 183.5
OTHER SAMPLE INFORMATION.. MUDDY WATER WITH SULFUR LINED BANK.
WATER ANALYSIS
ANALYSIS IN PHM
PH..... 8.0
H.E..... 10.0
CA..... 24.0
CL..... 1
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... ALLEN AND DAY, 1935

ISOLATES_10001

CO3.... N
FE(10%)...
HCO3....
NO3...
SO4...
1272.

COMPILED BY... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... ALLEN AND DAY, 1935

GEOETHERM SAMPLE L1E

NAME OF SAMPLE SOURCE... YELLOWSTONE - NEW HIGHLAND
LOCATION... TOWNSHIP RANGE
COUNTRY..... UNITED STATES

WYOMING

PARK

MAP REFERENCE... MAMMOTH 1:62500

OTHER LOCALITY INFORMATION: MAMMOUTH HOT SPRINGS YELLOWSTONE NATIONAL PARK

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)... 73.5

WATER ANALYSIS

PH... 7.0
SALINITY/TEMPERATURE (% DIFF)... 0.1
ANALYSIS

CO3....	LI...	1.6
CR....	Mg...	76.
H...	Na...	130.
HE...	NH...	54.
CA...	SO4...	508.
CD...	H2S....	5.8
CL...	100.	
CO...	K...	55.

REFERENCE AND IDENTIFICATION

COMPILED BY... SILVA, CHRISTOPHER L.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... BRECKENRIDGE AND HINCLEY, 1978

RECORD 00138

GEOETHERM SAMPLE L1E
NAME OF SAMPLE SOURCE... YELLOWSTONE - NURKIS GEYSER BASIN - SPRING, NO. 59
LOCATION... TOWNSHIP RANGE
COUNTRY... COUNTRIES

GEOTHERM FILE ID: 0020416

COUNTRY..... UNITED STATES
 STATE..... WYOMING,
 COUNTY..... PARK
 GEOLOGIC PROVINCE... YELLOWSTONE PLATEAU
 MAP REFERENCE..... MORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: WESTERN BANK, NORTHWEST OF VARMA SPRING.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTED..... 1970/09/00
 OTHER SAMPLE INFORMATION: DEEP SPRING WITH BLACK DEPOSIT.

WATER ANALYSIS
 ANALYSIS IN PPM

Ag.....	0.0
Al.....	1.0
B.....	0.1
BA.....	4.1
BF.....	0.0
BI.....	0.0
CA.....	5.0
Cl.....	39.3
CO.....	76.0
K.....	0.0
Mg.....	1.4
N.....	0.0
Na.....	0.0
FE(10%)	3.0
UA.....	0.0
RCO3.....	0.0
Li.....	0.0
MG.....	0.0
NB.....	0.0
NH4.....	7.0
SiO2.....	257.0
SO4.....	504.0
PO4.....	188.0
Cl.....	367.0

OTHER ANALYTICAL DATA: H = 1.4 ppm.
 QUALIFICATION FIELD DATA: B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00139

GEOOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: YELLOWSTONE - PORK CHOP SPRING
 LOCATION: TOWNSHIP=RANGE
 COUNTRY: UNITED STATES
 STATE: WYOMING
 COUNTY: PARK
 OTHER LOCALITY INFORMATION: MORRIS GEYSER BASIN YELLOWSTONE NATIONAL PARK.
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER: 1
 TEMPERATURE (C): 71.0
 WATER ANALYSIS
 ANALYSIS

P1.....	7.13
Ag.....	0.0
Al.....	0.1
B.....	1.5
BF.....	0.0
BI.....	0.0
CA.....	6.4
Cl.....	0.0
CO.....	0.0
K.....	0.0
Mg.....	0.5
N.....	0.0
Na.....	0.0
FE(10%)	0.0
UA.....	0.0
RCO3.....	0.0
Li.....	7.4
MG.....	0.5
NB.....	526.0
NH4.....	0.0
SiO2.....	504.0
PO4.....	33.0
Cl.....	435.0

REFERENCE AND IDENTIFICATION
 COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... TRUEVALE AND FOURNIER, 1976

RECORD 00140

GEOOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: YELLOWSTONE - SULFUR POOL

RECORD 0020501

LOCATION

COUNTRY..... UNITED STATES

WYOMING,

PARK

MAP REFERENCE.....

CANYON VILLAGE 1:62500

OFT-H LOCALITY INFORMATION BY MUD VOLCANO.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1936/00/00

SAMPLE NUMBER..... 31

GAS ANALYSIS

ANALYSIS IN MOLE %

AR: 0.1

CH₄: 0.1CO₂: 0.1H₂: 0.1N₂: 0.1O₂: 0.1S₂: 0.1H₂S: 0.1CH₄: 0.1CO₂: 0.1H₂: 0.1N₂: 0.1O₂: 0.1S₂: 0.1H₂S: 0.1CH₄: 0.1CO₂: 0.1H₂: 0.1N₂: 0.1O₂: 0.1S₂: 0.1H₂S: 0.1

AR: 0.1

CH₄: 0.1CO₂: 0.1H₂: 0.1N₂: 0.1O₂: 0.1S₂: 0.1H₂S: 0.1

AR: 0.1

CH₄: 0.1CO₂: 0.1H₂: 0.1N₂: 0.1O₂: 0.1S₂: 0.1H₂S: 0.1

AR: 0.1

CH₄: 0.1CO₂: 0.1H₂: 0.1N₂: 0.1O₂: 0.1S₂: 0.1H₂S: 0.1

AR: 0.1

CH₄: 0.1CO₂: 0.1H₂: 0.1N₂: 0.1O₂: 0.1S₂: 0.1H₂S: 0.1

AR: 0.1

CH₄: 0.1CO₂: 0.1H₂: 0.1N₂: 0.1O₂: 0.1S₂: 0.1H₂S: 0.1

AR: 0.1

CH₄: 0.1CO₂: 0.1H₂: 0.1N₂: 0.1O₂: 0.1S₂: 0.1H₂S: 0.1

LONGBRIDGE-RANGE

COORDINATES

LAT/LONG... 44-37.28 N 110-25.58 W

UNITED STATES

COUNTRY.....

WYOMING,

STATE.....

PARK

COUNTRY.....

PROVINCE.....

GEOLOGIC PROVINCE.....

YELLOWSTONE PLATEAU

OFT-H LOCALITY INFORMATION: NEAR GIBBON RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 86

OTHER SAMPLE INFORMATION.. STEAMING SULFUR AREA.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00

GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

ISOTOPES_100ZU

LONGBRIDGE-RANGE

COORDINATES

LAT/LONG... 44-37.28 N 110-25.58 W

UNITED STATES

COUNTRY.....

WYOMING,

STATE.....

PARK

PROVINCE.....

GEOLOGIC PROVINCE.....

YELLOWSTONE PLATEAU

OFT-H LOCALITY INFORMATION: NEAR GIBBON RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR.....

1965/00/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER.....

86

OTHER SAMPLE INFORMATION.. STEAMING SULFUR AREA.

GAS ANALYSIS

DATE/ANALYST.....

1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

ISOTOPES_100ZU

LONGBRIDGE-RANGE

COORDINATES

LAT/LONG... 44-37.28 N 110-25.58 W

UNITED STATES

COUNTRY.....

WYOMING,

STATE.....

PARK

PROVINCE.....

GEOLOGIC PROVINCE.....

YELLOWSTONE PLATEAU

OFT-H LOCALITY INFORMATION: NEAR GIBBON RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR.....

1965/00/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER.....

86

OTHER SAMPLE INFORMATION.. STEAMING SULFUR AREA.

GAS ANALYSIS

DATE/ANALYST.....

1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

AR: 0.03

CH₄: 0.2CO₂: 0.2H₂: 0.4N₂: 0.4O₂: 0.2S₂: 0.2H₂S: 0.2

ISOTOPES_100ZU

LONGBRIDGE-RANGE

COORDINATES

LAT/LONG... 44-37.28 N 110-25.58 W

UNITED STATES

COUNTRY.....

STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... CANYON VILLAGE 1:62500
 OTHER LOCALITY INFORMATION: BY BEAR CREEK, ABOUT 1000 FT SOUTH OF TURBID LAKE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTION..... 1930/05/00
 SAMPLE NUMBER..... 30
 TEMPERRATURE (C)..... 80.1
 WATER ANALYSIS
 ANALYSIS IN PPM
 BE..... FE(TOT)..... NB...
 CA..... HC03.... N
 CL..... 1.
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4..... 0.5
 C2H6.....
 CO2..... 98.
 H2..... N
 OTHER ANALYTICAL DATA... H2O ANAL: H = 0.15 PPM.
 QUALIFICATION FIELD..... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-346
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00143

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... CANYON VILLAGE 1:62500
 OTHER LOCALITY INFORMATION: NE OF BEAR CREEK, NEAR TURBID LAKE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTION..... 1930/05/00
 TEMPERRATURE (C)..... 88.8
 OTHER SAMPLE INFORMATION... LARGE SHALLOW POOL.

WATER ANALYSIS IN PPM
 BE..... FE(TOT)..... NB...
 CA..... HC03.... I
 CL..... 6.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00144

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES

COORDINATES

GEOTHERM FILE ID: 0020497
 LAT/LONG... 44-32-48 N 110-15-35 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... TOWER JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: WASHBURN SPRINGS! EAST SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS:
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 33

GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4... 1.3.
 C2H6... 1.2
 CO2... 81.
 H2... 6.25

QUALIFICATION FIELD, N2 = N2 + O2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-341
 REFERENCE..... ALLEN AND DAY, 1935

GÉOTHERM SAMPLE-FIÉ
 NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... CANYON VILLAGE 1:62500
 OTHER LOCALITY INFORMATION: CRATER HILLS! EAST SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 10n
 TEMPERATURE (C)..... 87.
 OTHER SAMPLE INFORMATION.. SULFUR POOL.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH4... N
 C2H6...
 CO2... 99.
 H2... L 0.4

OTHER ANALYTICAL DATA... PH = 3.4.
 QUALIFICATION FIELD, O2 = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-340
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00147

GÉOTHERM FILE ID: 0020491

COORDINATES
 LAT/LONG... 44-39.53 N 110-28.75 W

LAT/LONG... 44-39.53 N 110-28.75 W

RECORD 00148

GÉOTHERM FILE ID: 0020490

COORDINATES

GÉOTHERM SAMPLE-FIÉ
 NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION
 COUNTRY..... TOWNSHIP-BRANGE

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... CANYON VILLAGE 1:62500
 OTHER LOCALITY INFORMATION: CRATER HILLS; 10M WEST OF CRATER HILLS GEYSER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 98
 TEMPERATURE (C)..... 79.6
 OTHER SAMPLE INFORMATION.. SMALL SULFUR PUUL.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH4... N
 C2H6... 0.36
 CO2... 0.19
 H2... N
 QUALIFICATION FIELD..... O2 = O2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX.... NEH-339
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00149

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTY..... CANYON VILLAGE 1:62500
 STATE..... UNITED STATES
 PARK..... WYOMING
 MAP REFERENCE..... CANYON VILLAGE 1:62500
 OTHER LOCALITY INFORMATION: CRATER HILLS; ABOUT 150M SOUTH OF CRATER HILLS GEYSER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 99
 TEMPERATURE (C)..... 85.
 OTHER SAMPLE INFORMATION.. LARGE BLACK FEATURE.

GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH4... 1
 C2H6... 99.
 CO2... N
 H2... 0.74
 02... 0.02

QUALIFICATION FIELD..... O2 = O2 + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX.... NEH-339
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

LAT/LONG... 44-39.50 N 110-29.00 W

RECORD 00150

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTY..... CANYON VILLAGE 1:62500
 STATE..... UNITED STATES
 PARK..... WYOMING
 MAP REFERENCE..... CANYON VILLAGE 1:62500
 OTHER LOCALITY INFORMATION: CRATER HILLS; ABOUT 150M SOUTH OF CRATER HILLS GEYSER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 99
 TEMPERATURE (C)..... 85.
 OTHER SAMPLE INFORMATION.. LARGE BLACK FEATURE.

ISOTOPES (00Z0)

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

GEOTHERM FILE ID: 0020489
 LAT/LONG... 44-39.50 N 110-28.93 W

COORDINATES

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
COUNTRY... TOWNSHIP=RANGE

STATE... UNITED STATES

WYOMING

PARK

COUNTY... MAP REFERENCE...

CANYON VILLAGE 1:62500

MAP DESCRIPTION... CANYON VILLAGE 1:62500

OTHER LOCALITY INFORMATION: CRATER HILLS; SOUTH AREA; ABOUT 200 YDS SOUTH OF CRATER HILLS GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE / COLLECTOR... 1930/06/00

SAMPLE NUMBER... 32

TEMPERATURE (C)... 79.8

WATER ANALYSIS

ANALYSIS IN PPM

AG... CO₃... N

HE... FE(TOT)... N

CA... HC03... N

CL... 283.

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH₄... 0.1

C₂H₆...

CO₂... 9d.

H₂... n

OTHER ANALYTICAL DATA... H₂O ANAL: H = 13.7 PPM.
QUALIFICATION FIELD: N₂ = N₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
COMPTILER AFFILIATION... U.S. GEOLOGICAL SURVEY

CROSS INDEX... NEH-337
REFERENCE... ALLEN AND DAY, 1935

RECORD 00151

GEOTHERMAL SITES LIST

NAME OF SAMPLE SOURCE... IMMIGRANTS WASH TUB

LOCATION

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... PLATTE

GEOLOGIC PROVINCE...

MAP REFERENCE...

MAP DESCRIPTION...

DATE / COLLECTOR... 1973/10/24

TEMPERATURE (C)... 92

DISCHARGE... Q 87

TYPE A SAMPLE INFORMATION... TWO SPRINGS 200 FT APART.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS...

340.

ANALYSIS IN PPM

HT... FE(TOT).

CA... HC03...

QUALIFICATION FIELD... BOTH SPRINGS SAME TEMPERATURE.

REFERENCE AND IDENTIFICATION

COMPILED BY... MEASLER, H. P.

COMPTILER AFFILIATION... UNIVERSITY OF WYOMING

RECORD 00152

GEOTHERMAL SITES LIST

NAME OF SAMPLE SOURCE... IMMIGRANTS WASH TUB

LOCATION

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... PLATTE

GEOLOGIC PROVINCE...

MAP REFERENCE...

MAP DESCRIPTION...

DATE / COLLECTOR... 1973/10/24

TEMPERATURE (C)... 92

DISCHARGE... Q 87

TYPE A SAMPLE INFORMATION... TWO SPRINGS 200 FT APART.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS...

340.

ANALYSIS IN PPM

HT... FE(TOT).

CA... HC03...

QUALIFICATION FIELD... BOTH SPRINGS SAME TEMPERATURE.

REFERENCE AND IDENTIFICATION

COMPILED BY... MEASLER, H. P.

COMPTILER AFFILIATION... UNIVERSITY OF WYOMING

ÉQUATIONS
LAT/LONG... 44-39.50 N 110-28.93 W

ÉQUATIONS
LAT/LONG...

UTM ZONE... +13
NORTHING... 4677288.

518122.

ÉQUATIONS
LAT/LONG...

UTM ZONE... +13
NORTHING... 4677288.

518122.

ÉQUATIONS
LAT/LONG...

NB... 504.. 86.

NO3... 1.2

FLOW IS TOTAL (1 SPRING FLOWS 11 L/MIN, THE OTHER 76 L/MIN).

REFERENCE AND IDENTIFICATION

COMPILED BY... MEASLER, H. P.

COMPTILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... RUCKENRIDGE AND HINCKLEY, 1978

PAGE 0082

RECORD 00152

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... IMMIGRANTS WASHTUB
LOCATION TOWNSHIP-RANGE
COUNTRY UNITED STATES 26N 066W 04
STATE WYOMING
COUNTY PLATTE
GEOLLOGIC PROVINCE 41
MAP REFERENCE... WHEATLAND NE 1:240000
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR... 1976/07/29
TEMPERATURE (C)... 0 21.0
DISCHARGE... Q 87 L/MIN
OTHER SAMPLE INFORMATION... TWO SPRINGS 200 FT APART.
WATER ANALYSIS
P... 7.9
SPECIFIC CONDUCTANCE... 517.
TOTAL DISSOLVED SOLIDS... 322.
CHARGE I-BALANCE (% DIFF)... 1.7
ANALYSIS IN PPM
AG... CO3..... N Li... Na... Mg... 22. S... L 0.001
AL... CR..... F 2.5 19. SiO2... 18.
B... 0.06 Fe(EDTA) NB... S04... 92.
BE...
CA... 52. HCO3... 200. NO3... 1.2
CL... 3.7 K...
COMPUTATION FIELD... BOTH SPRINGS SAME TEMPERATURE. FLOW IS TOTAL (1 SPRING FLOWS 11 L/MIN, THE OTHER 76 L/MIN).
QUALIFICATION FIELD... AND IDENTIFICATION
COMPILED BY... HEASLER, H. P.
COMPLIER AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... RUCKENRIDGE AND HINCKLEY, 1978

RECORD 00153

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BIG FALL CREEK SPRINGS
LOCATION TOWNSHIP-RANGE
COUNTRY UNITED STATES 26N 115W 20 SW OF SE
STATE WYOMING
COUNTY SUBDIVISION
GEOLLOGIC PROVINCE 41
MAP REFERENCE... MT. THOMPSON 1:240000
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR... 1976/09/07
TEMPERATURE (C)... 16.0
DISCHARGE... 10220 L/MIN
WATER ANALYSIS
P... 7.8
SPECIFIC CONDUCTANCE... 712.
TOTAL DISSOLVED SOLIDS... 524.
CHARGE I-BALANCE (% DIFF)... 1.4
ANALYSIS IN PPM
ISOTOPES (0/200)
Li... Na... Mg... 22. S... L 0.001
SiO2... 18.
S04... 92.
NO3... 1.2
CO2...
K...
L 0.001

AS		CO3..... N	LI....	S....	0.001
AL		CR.....	MG....		
H	0.02	F.....	NA....	29.	
HF		FE(TOT)	NH....	4.1	SI02.
CA	110.	HC03....	NU3....	13.	SO4..
CL	4.0	160.	0.7		260.
CO		K.....			
SO		K.....			

RÉFÉRENCE AND IDENTIFICATION
COMPILED BY H. P. HEASLER.
COMPILED AFFILIATION UNIVERSITY OF WYOMING
REFERENCE HICKENRIDGE AND HINCKLEY, 1978

RECORD 00154

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... KENDALL WARM SPRINGS
LOCATION COUNTRY... UNITED STATES 38N 110W 02

STATE... WYOMING
COUNTY... SUBFILE
GEOLOGIC PROVINCE...
MAP REFERENCE... 41
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1976/09/24

TEMPERATURE (C) 29.5

DISCHARGE (L/MIN) 13627.

OTHER SAMPLE INFORMATION... 6 MAIN SPRINGS. UNIQUE SPECIES OF FISH IN AREA.
WATER ANALYSIS
P.H. 8.0
SPECIFIC CONDUCTANCE 1230.
TOTAL DISSOLVED SOLIDS 1060.
CHARGE IMBALANCE (% DIFF) 5.3
ANALYSIS IN ppm

AL	CO3..... N	LI....	S....	L 0.001
H	CR.....	MG....	46.	
HF	F.....	NA....	2.3	SI02.
CA	FE(TOT)	NH....	0.4	17.
CL	HC03....	NU3....	0.2	SO4..
CO	K.....		0.2	6b0.
SO	K.....		2.0	

RÉFÉRENCE AND IDENTIFICATION
COMPILED BY H. P. HEASLER.
COMPILED AFFILIATION UNIVERSITY OF WYOMING
REFERENCE HICKENRIDGE AND HINCKLEY, 1978

RECORD 00155

GEOTHERM FILE

NAME OF SAMPLE SOURCE... KENDALL WARM SPRINGS
LOCATION COUNTRY... UNITED STATES 38N 110W 02

STATE... WYOMING
COUNTY... SUBFILE
GEOLOGIC PROVINCE...
MAP REFERENCE... 41
SAMPLE DESCRIPTION AND CONDITIONS

DISCHARGE (L/MIN) 124000

COUNTIES LAT/LONG... 43-16.93 N 110-01.13 W
UTM ZONE... *12
NORTHING... 4792402.
579609.

COUNTIES LAT/LONG... 43-16.93 N 110-01.13 W
UTM ZONE... *12
NORTHING... 4792402.
579609.

DATE/COLLECTOR..... 1966/08/09
 TEMPERATURE (C)..... 0 29.5
 OTHER SAMPLE INFORMATION... 6 MAIN SPRINGS. UNIQUE SPECIES OF FISH IN AREA.
 WATER ANALYSIS
 P.....
 SPECIFIC CONDUCTANCE..... 7.8
 TOTAL DISSOLVED SOLIDS.... 1250.
 CHARGE IONALANCE (% DIFF) ... 2.9
 ANALYSIS IN ppm
 AL..... CR..... MG..... SI02..... ISOPOES_10/001
 H..... F..... NA..... NB..... S102..... 15.
 HE..... FE(IOT)..... 4.0
 CA..... HC03..... NO3..... S04.. 650.
 CL..... 3.2
 CO.....
 K.....
 QUALIFICATION FIELD.... TEMPERATURE FROM 9/24/76 ANALYSIS.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY. 1978

RECORD 00156

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... STEELE HOT SPRINGS - SPRING 1
 LOCATION IOWNSHIE-BRANIG
 COUNTRY UNITED STATES 32N 107W 16 NW OF NW
 STATE WYOMING LAT/LONG... 42-44.98 N 109-36.97 W
 COUNTY SUBLITTE UTM ZONE... +12
 GEOLOGIC PROVINCE... 41 NORTHING... 4733730.
 MAP REFERENCE..... FREMONT BUTTE 1:240000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/09/24
 TEMPERATURE (C)..... 35.5
 DISCHARGE..... 76. L/MIN
 OTHER SAMPLE INFORMATION... 2 SPRINGS 150 FT APART. SPRING 1 IS LARGER, COOLER SPRING.
 WATER ANALYSIS
 P..... 9.6
 SPECIFIC CONDUCTANCE..... 456.
 TOTAL DISSOLVED SOLIDS.... 302.
 CHARGE IONALANCE (% DIFF) ... 1.7
 ANALYSIS IN ppm
 AG..... 0.5 CO3..... 29. Li..... S..... 0.8
 AL..... CR..... 0.1 MG..... N
 AS..... CS..... 0.1 MN..... L 0.05
 AI..... CU..... 0.01 MU..... SE.... L 0.001
 K..... 0.02 F..... 14. NA..... S102.... 46.
 HA.....
 HE..... FE(IOT).... NB..... S04.. 0.2
 BR.....
 CA..... 2.8 BE..... NL.....
 CARB..... HC03..... NO3.... PH.... 0.1
 CO..... 0.01 H6.....
 CL..... 70. L 0.001
 CO.....
 OTHER ANALYTICAL DATA... OH = 1.0 ppm

RECORD 00156

GEOTHERM FILE ID: 0075059

COORDINATES
 LAT/LONG... 42-44.98 N 109-36.97 W
 UTM ZONE... +12
 NORTHING... 4733730.
 613255.

ISOPOES_10/001

ISOPOES_10/001

ISOPOES_10/001

ISOPOES_10/001

ISOPOES_10/001

ZN.... L 0.02

REFERENCE AND IDENTIFICATION
 COMPILED BY H. P.
 COMPILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE H. P.
 BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00157

GEOITHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... STEELE HOT SPRINGS - SPRING 1
 LOCATION TOWNSHIP-RANGE 32N 107W 16 NW OF NW
 COUNTY UNITED STATES WYOMING
 STATE SUBLLETTE
 COUNTY
 GEOLOGIC PROVINCE
 MAP REFERENCE FREMONT BUTTE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR 1966/09/22
 TEMPERATURE (C) 15.5
 OTHER SAMPLE INFORMATION 2 SPRINGS 150 FT APART. SPRING 1 IS LARGER, COOLER SPRING.
 WATER ANALYSIS

P	9.3			
SPECIFIC CONDUCTANCE	460.			
TOTAL DISSOLVED SOLIDS	268.			
CHARGE BALANCE (% DIFF)	22.8			
ANALYSIS IN ppm				
AI	CR.....	Mg.....	Ca.....	K.....
H	0.1	F.....	14.	9.2
HF		Fe(TOT)	0.41	Na.....
CA	2.4	HCO3....	17.	NH.....
CL	7.6			NO3....
CO				0.1

QUALIFICATION FIELD TEMPERATURE FROM 9/24/76 ANALYSIS.
 REFERENCE AND IDENTIFICATION
 COMPILED BY H. P.
 COMPILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE H. P.
 BRECKENRIDGE AND HINCKLEY, 1978

GEOITHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... STEELE HOT SPRINGS - SPRING 2
 LOCATION TOWNSHIP-RANGE 32N 107W 16 NW OF NW
 COUNTY UNITED STATES WYOMING
 STATE SUBLLETTE
 COUNTY
 GEOLOGIC PROVINCE
 MAP REFERENCE FREMONT BUTTE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR 1976/09/24
 TEMPERATURE (C) 39.0
 DISCHARGE 19. L/MIN
 OTHER SAMPLE INFORMATION 2 SPRINGS 150 FT APART. SPRING 2 IS THE SMALLER, HOTTER SPRING.
 WATER ANALYSIS

P	2.7
SPECIFIC CONDUCTANCE	401.
TOTAL DISSOLVED SOLIDS	300.

CHARGE IONALANCE (% DIFF) ... 4.2
 ANALYSIS IN μM
 Al..... L 0.3 CO₃..... 30.
 Al..... L 0.3 CR..... L 0.1
 As..... L 0.05 CS..... MN..... L 0.05
 Au..... Cu..... L 0.01 MU..... SE.... L 0.001
 H..... 0.03 F..... 14. NA.... S102. 46.
 HA..... L 0.5 FE(TOT). N NB....
 HE..... GE..... N1.... L 0.1
 He..... 2.1 HCO₃..... N NO₃.... N
 CA+Mg, Hg..... L 0.001 PH.... L 0.1
 Cd..... L 0.01
 Cl..... 8.5
 Cr..... K..... 0.9
 Ni.....
 REFFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 CHAPTER AFFILIATION..... UNIVERSITY OF WYOMING
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00159
 GEOHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... ABERCROMBIE WARM SPRINGS
 LOCATION TOWNSHIP-RANGE
 COUNTY..... 41N 116W 02 NW OF SW
 STATE..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 GEOLOGIC PROVINCE... 41
 MAP REFERENC... GROS VENTRE JUNCTION 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR... 1976/09/23
 TEMPERATURE (C) ... 27.0
 DISCHARGE (L/MIN) ... 940.
 WATER ANALYSIS
 P..... 8.3
 SPECIFIC CONDUCTANCE..... 34H.
 TOTAL DISSOLVED SOLIDS... 192.
 CHARGE IONALANCE (% DIFF) ... 2.8
 ANALYSIS IN μM
 Al..... L 0.5 CO₃..... N L1....
 Al..... CR..... L 0.1 MG.... 17.
 As..... CS..... MN.... L 0.05
 Au..... Cu..... MU.... SE.... 0.002
 H..... F..... 0.6 NA.... S102. 14.
 HA..... HE(TOT). N NB....
 HE..... GE..... N1.... L 0.1
 Hg..... HCO₃..... NO₃.... 1.9
 Ca+Mg, Hg..... L 0.001 PH.... L 0.1
 Cd..... L 0.01
 Cl..... 2.9
 Cr..... K..... 2.6
 REFFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 CHAPTER AFFILIATION..... UNIVERSITY OF WYOMING

ISOPODES_10/001
 GEOHERM FILE ID: 0075063
 COORDINATES
 LAT/LONG... 43-32.75 N 110-44.37 W
 UTM ZONE... 12
 NORTHING... 4821249.
 521045.

ISOPODES_10/001
 LAT/LONG... 43-32.75 N 110-44.37 W
 UTM ZONE... 12
 NORTHING... 4821249.
 521045.

REFERENCE..... RHECKENRIDGE AND HINCKLEY, 1978

PAGE 0087

GEOTHERM SAMPLE FILE		RECORD 00160	
NAME OF SAMPLE SOURCE	ASTORIA SPRINGS	EQUILIBRIALS	GEOTHERM FILE ID: 0075064
LOCATION	LON/SHR/BG-RANGE 39°N 116°W 32	LAT/LONG...	43-18-00 N 110-46.48 W
COUNTRY	UNITED STATES	UTM ZONE...	412
STATE	WYOMING	NORTHING...	4793939.
COUNTY	TEJON	SITE/LONG...	518271.
GEOL OGIC PROVINCE	41		
MAP REFERENCE	MUNGER MOUNTAIN 1:24000		
SAMPLE DESCRIPTION AND LOCALITY			
DATE/COLLECTOR	1976/09/22		
TEMPERATURE (C)	37.0		
DISCHARGE	379. L/MIN		
OTHER SAMPLE INFORMATION	CONSISTS OF A RESORT DEVELOPMENT FED BY A SMALL CLUSTER OF SPRINGS.		
WATER ANALYSIS			
PH	7.8		
SPECIFIC CONDUCTANCE	1550.		
TOTAL DISSOLVED SOLIDS	1160.		
CHARGE IMBALANCE (% DIFF)	5.2		
ANALYSIS IN PPM			
AG..... L 0.5	CO3..... N	Li.....	
AL.....	CR..... L 0.1	Mg.....	43.0
AS..... L 0.05	CS.....	Mn.....	0.05
AU.....	CU..... L 0.01	Mn.....	
H..... 0.17	F.....	Na.....	SE 0.01
HA..... L 0.5		Na.....	120. SID2. 26.
HE.....	FE (TGT) .. N	NH.....	
BR.....	GE.....	NI.....	SO4 0.01
CA.....	HCO3.....	NO3.....	520.
CA+MG..	300.	NO3.....	
CI..... L 0.01	MG.....	PO4.....	
CL..... 97.	L 0.001	PO4.....	
CO.....	K.....	ZN.....	0.033
REFERENCE AND INVESTIGATOR			
COMPILED BY	MEASLER, H. P.		
COMPLIER AFFILIATION	UNIVERSITY OF WYOMING		
REFERENCE	RHECKENRIDGE AND HINCKLEY, 1978		
GEOTHERM SAMPLE FILE		RECORD 00161	
NAME OF SAMPLE SOURCE	BLACK SAND BASIN - UNNAMED SPRING	EQUILIBRIALS	GEOTHERM FILE ID: 0020296
LOCATION	LON/SHR/BG-RANGE	LAT/LONG...	44-27-67 N 110-51.65 W
COUNTRY	UNITED STATES	UTM ZONE...	
STATE	WYOMING	NORTHING...	
COUNTY	TEJON	SITE/LONG...	
MAP REFERENCE	OLD FAIRFIELD 1:62500		
SAMPLE DESCRIPTION AND LOCALITY	UPPER GEYSER BASIN; 25 FT NORTH OF TIN BOARDWALK TOWARD EMERALD SPRING.		
DATE/COLLECTOR	1965/06/00		
SAMPLE NUMBER	105		
TEMPERATURE (C)	48.		
GAS ANALYSIS			

DATE/ANALYST..... 1965/06/09 GUNTER AND MUSGRAVE
ANALYSIS IN MULE &

CH ₄ ...	1.1	N2...	10.7
C ₂ H ₆ ...		02...	0 1.8
CO...	86.		
H ₂ ...	0.4		
QUALIFICATION FIELD..... PH (EST. WITH PH PAPER) = 8. REFERENCE AND IDENTIFICATION			
COMPILED BY.....	LAWSON, WILLIAM A.		
COMPILER AFFILIATION...	U.S. GEOLOGICAL SURVEY		
COMPILER CROSS INDEX...	NEH-207		
REFERENCE.....	GUNTER AND MUSGRAVE, 1966		

ISOTOPE_100701

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BLACK SAND BASIN - UNNAMED SPRING
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: NORTH OF SPOUTER SPRING, UPPER GEYSER BASIN.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/00/00
SAMPLE NUMBER..... 14
GAS ANALYSIS
ANALYSIS IN VOLUME %
CH₄... N
C₂H₆... 0.4
CO₂... 1.1

H ₂ S...	N	H2S...	23.2
N2...	0	N2...	5.1
CO...		CO...	
QUALIFICATION FIELD..... N2 = AR. REFERENCE AND IDENTIFICATION			
COMPILED BY.....	LAWSON, WILLIAM A.		
COMPILER AFFILIATION...	U.S. GEOLOGICAL SURVEY		
COMPILER CROSS INDEX...	NEH-176		
REFERENCE.....	ALLEN AND DAY, 1935.		

ISOTOPE_100701

RECORD 00163

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... ROYLES HILL SPRINGS
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
PROVINCE..... 41
MAP REFERENCE..... JACKSON 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1976/09/23
TEMPERATURE (C)..... 30.0
DISCHARGE (L/MIN)..... 189
OTHER SAMPLE INFORMATION: CONSISTS OF SEVERAL SMALL SPRINGS AND SEEPS FLUING FROM THE BASES OF TALUS SLOPES.
WATER ANALYSIS

RECORD 00162

GEOTHERM FILE ID: 002045
NAME OF SAMPLE SOURCE... IOWNSTILE RANGE
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: NORTH OF SPOUTER SPRING, UPPER GEYSER BASIN.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 14

GAS ANALYSIS
ANALYSIS IN VOLUME %

CH ₄ ...	N	H ₂ S...	23.2
C ₂ H ₆ ...	0.4	N2...	5.1
CO ₂ ...	1.1	CO...	
QUALIFICATION FIELD..... N2 = AR. REFERENCE AND IDENTIFICATION			
COMPILED BY.....	LAWSON, WILLIAM A.		
COMPILER AFFILIATION...	U.S. GEOLOGICAL SURVEY		
COMPILER CROSS INDEX...	NEH-176		
REFERENCE.....	ALLEN AND DAY, 1935.		

GEOTHERM FILE ID: 0075065
NAME OF SAMPLE SOURCE... IOWNSTILE RANGE
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
PROVINCE..... 41
MAP REFERENCE..... JACKSON 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1976/09/23
TEMPERATURE (C)..... 30.0
DISCHARGE (L/MIN)..... 189
OTHER SAMPLE INFORMATION: CONSISTS OF SEVERAL SMALL SPRINGS AND SEEPS FLUING FROM THE BASES OF TALUS SLOPES.

RECORD 00163

P-1.....	7.6	1
SPECIFIC CONDUCTANCE.....	2380	
TOTAL DISSOLVED SOLIDS.....	2480	
CHARGE IMBALANCE (% DIFF)....	9.3	
ANALYSIS IN ppm		
AG.....	CO3.....	N
AL.....	CR.....	
H.....	F.....	0
RE.....	FE(OT).....	
CA.....	HC03.....	1
CL.....		
3.15		
DÉFINITION	K.....	
DIFFERENCE AND INFLUENCATION		
COMPILED BY		HEASLER,
COMPLIANCE AFFILIATION		UNIVERSITY
REFERENCE		BRECKENR

GÉOTHERMÉ-SAMPLE-FILE
 NAME OF SAMPLE SOURCE ••• GRANITE FALLS HOT SPRINGS
 LOCATION ••••• TOWNSHIP-RANGE
 COUNTRY ••••• UNITED STATES 39N 113W 06 SE OF
 STATE ••••• WYOMING
 COUNTY •••••
 GEOLOGIC PROVINCE •••••
 MAP REFERENCE ••••• GRANITE FALLS 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR ••••• 1976/09/22
 TEMPERATURE (C) ••••• 45.0
 DISCHARGE ••••• 454. L/MIN
 OTHER SAMPLE INFORMATION ••• CONSISTS OF THREE SEPERATE VENTS
 REFERENCE AND IDENTIFICATION
 COMPILED BY ••••• HEASLER, H. P.
 COMPILER AFFILIATION ••••• UNIVERSITY OF WYOMING
 REFERENCE ••••• HECKENKIRGE AND HINCKLEY, 1978

GÉOTHERM SAMPLE SHEET
 NAME OF SAMPLE SOURCE... GRANITE HUT SPRING
 LOCATION TOWNSHIP-RANGE 39N 113W 06 NE OF S
 COUNTRY.....
 STATE..... UNITED STATES
 COUNTY..... WYOMING
 GFOLIOIC PROVINCE.....
 MAP REFERENCE.....
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/09/22
 TEMPERATURE (C)..... 9.41° U
 DISCHARGE..... 0.1136. L/MIN
 WATER ANALYSIS
 P-H..... 8.3
 SPECIFIC CONDUCTANCE..... 1050.
 TOTAL DISSOLVED SOLIDS..... 670.
 CHARGE DENSITY (% DIFF.)..... 4.7

L1...	120.	S....	6.0
M6...	28.	S102.	26.
NA...		S04..	1600.
NH...			
NU3...			

RECOMU 00164

FILE ID: 0075066
0-26.57 M

RECORD 00165
FILE ID: 007506
0-26.68 W

ANALYSIS IN ppm
 AG..... L 0.5
 AL.....
 AS..... L 0.05
 AU..... 0.61
 HA..... L 0.5
 HF.....
 HR..... 32.
 CA..... C A + MG
 CI..... L 0.01
 CL..... 14.9.

K..... 8.8
 CO..... QUALIFICATION FIELD..... TEMPERATURE HAS VARIED FROM 29 TO 45 DEG C. VARYING INVERSELY WITH FLOW.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HASLER, H. P.
 COMPILER AFFILIATION..... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY. 1978

ANALYSIS IN ppm
 CO₂..... N
 CR..... L 0.1
 CS.....
 CU..... L 0.01
 F..... 6.0
 FE(TDT)..... N
 GE.....
 HC03..... 200.
 HG..... L 0.001
 Li.....
 MG.....
 MN.....
 MU.....
 NA.....
 NB.....
 NI..... L 0.1
 NU3..... 0.5
 PB..... L 0.01
 Zn..... L 0.02

K..... 8.8
 CO..... QUALIFICATION FIELD..... TEMPERATURE HAS VARIED FROM 29 TO 45 DEG C. VARYING INVERSELY WITH FLOW.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HASLER, H. P.
 COMPILER AFFILIATION..... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY. 1978

RECORD 00166

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... GRANITE HUT SPRING
 LOCATION... TOWNSHIP-RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 GEOLOGIC PROVINCE...
 MAP REFERENCE... GRANITE FALLS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTION... 1973/10/02
 TEMPERATURE (C)... 39.0

WATER ANALYSIS
 PH... 8.0
 SPECIFIC CONDUCTANCE... 1050.
 TOTAL DISSOLVED SOLIDS... 597.
 CHARGE IMBALANCE (% DIFF)... 1.9
 ANALYSIS IN ppm
 AL.....
 H..... 0.53
 HF.....
 CA..... 32.
 CL..... 1.3v.

K..... 8.6
 CO..... QUALIFICATION FIELD..... TEMPERATURE HAS VARIED FROM 29 TO 45 DEG C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HASLER, H. P.
 COMPILER AFFILIATION..... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY. 1978

ANALYSIS IN ppm
 CO₂..... N
 CR.....
 CS..... 5.3
 CU.....
 F.....
 FE(TDT).....
 HC03..... 182.
 HG.....
 Li.....
 MG.....
 MN.....
 MU.....
 NA.....
 NB.....
 NU3..... 0.2
 PB.....
 SI02..... 160.
 SO4.....
 Zn..... 0.01

ISOTOPES_10/001

RECORD 00166
 GEOTHERM FILE 101 0075068
 COORDINATES
 LAT/LONG... 43-22-20 N 110-26-68 W
 UTM ZONE... +12
 NORTHING... 4801638.
 544993.

ANALYSIS IN ppm
 CO₂..... N
 CR..... L 0.1
 CS.....
 CU..... L 0.01
 F..... 6.0
 FE(TDT)..... N
 GE.....
 HC03..... 200.
 HG..... L 0.001
 Li.....
 MG.....
 MN.....
 MU.....
 NA.....
 NB.....
 NU3..... 0.5
 PB..... L 0.01
 Zn..... L 0.02

K..... 8.8
 CO..... QUALIFICATION FIELD..... TEMPERATURE HAS VARIED FROM 29 TO 45 DEG C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HASLER, H. P.
 COMPILER AFFILIATION..... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY. 1978

RECORD 00167

NAME OF SAMPLE SOURCE... HEART LAKE GEYSER BASIN - RUSTIC GROUP - UNNAMED SPRING
 LOCATION... TOWNSHIP-RANGE

GEOTHERM FILE 101 0020479

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... WEST THUMB 1:62500
 OTHER LOCALITY INFORMATION: 1000 FT WEST OF HEART LAKE, SW CORNER OF BASIN.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/09/00
 SAMPLE NUMBER..... 27

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4...	2.4
C2H6...	0.2
C02...	88.
H2...	N

OTHER ANALYTICAL DATA... CO = 0.
 QUALIFICATION FIELD?... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-328
 REFERENCE..... ALLEN AND DAY, 1935

LAT/LONG... 44-16.55 N 110-30.20 W

RECORD 00168

GEOTHERM FILE ID: 0020263

NAME OF SAMPLE SOURCE... HILLSIDE GROUP - ASTA SPRING (NO. 3)
 LOCATION TOWNSHIP-RANGE

UNITED STATES

WYOMING

TETON

OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN, WEST SIDE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/09/00

WATER ANALYSIS

DATE/ANALYST..... 1930/09/00.

CHARGE IMBALANCE (% DIFF)... 5.9

ANALYSIS IN PPM

CO...	CO3..... N	Li....	S....	N
AL....	N	NA....	SiO2.	179.
H....	F.....	FE(TOT)	SiO4..	16.
HE....	FE(TOT)	1		
CA....	9.	HCO3....	252.	
CL....	7.			

REFERENCE AND IDENTIFICATION

LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

ISOTOPE_102001

GEOTHERM FILE ID: 0020264

NAME OF SAMPLE SOURCE... HILLSIDE GROUP - ASTA SPRING (NO. 3)
 LOCATION TOWNSHIP-RANGE

UNITED STATES

WYOMING

TETON

OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN, WEST SIDE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/09/00

WATER ANALYSIS

DATE/ANALYST..... 1930/09/00.

CHARGE IMBALANCE (% DIFF)... 5.9

ANALYSIS IN PPM

CO...	K.....	Li....	S....	N
AL....	NA....	145.	SiO2.	179.
H....	FE(TOT)	1	SiO4..	16.
HE....	HCO3....	252.		
CA....	9.			
CL....	7.			

REFERENCE AND IDENTIFICATION

LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

LAT/LONG... 44-28.20 N 110-51.52 W

RECORD 00169

GEOTHERM FILE ID: 0020262

NAME OF SAMPLE SOURCE... HILLSIDE GROUP - ASTA SPRING (NO. 3)
 LOCATION TOWNSHIP-RANGE

UNITED STATES

WYOMING

TETON

OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN, WEST SIDE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/09/00

WATER ANALYSIS

DATE/ANALYST..... 1930/09/00.

CHARGE IMBALANCE (% DIFF)... 5.9

ANALYSIS IN PPM

CO...	K.....	Li....	S....	N
AL....	NA....	145.	SiO2.	179.
H....	FE(TOT)	1	SiO4..	16.
HE....	HCO3....	252.		
CA....	9.			
CL....	7.			

STATE..... WYOMING
 COUNTY.... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN, WEST SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/06/00
 SAMPLE NUMBER..... 11
 GAS ANALYSIS

DATE/ANALYST.....	PHILLIPS, F.C.
ANALYSIS IN MOLE %	
CH ₄ 3.3	H ₂ S..... N
C ₂ H ₆	N ₂ 62.34
CO ₂ 2H ₂	O ₂ 6.3
H ₂ 0.25	

REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-169
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00170

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HILLSIDE GROUP - UNNAMED SPRING
 LOCATION..... LOMBARDE-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN, WEST SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 63
 TEMPERATURE (C)..... 84.

GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

AR..... 0.26	H ₂ S..... N
CH ₄ 0.54	N ₂ 50.95
C ₂ H ₆	O ₂ 1
CO ₂ 48.	
H ₂	

OTHER ANALYTICAL DATA: PH (EST. WITH PH PAPER) = 6.9.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-205
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES 100/02

RECORD 00171

GEOTHERM FILE 101 0020265

COORDINATES
 LAT/LONG... 44-28.20 N 110-51.52 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HILLSIDE GROUP - UNNAMED SPRING
 LOCATION..... LOMBARDE-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING

OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN, WEST SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 63
 TEMPERATURE (C)..... 84.

GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

AR..... 0.26	H ₂ S..... N
CH ₄ 0.54	N ₂ 50.95
C ₂ H ₆	O ₂ 1
CO ₂ 48.	
H ₂	

OTHER ANALYTICAL DATA: PH (EST. WITH PH PAPER) = 6.9.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-205
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00171

GEOTHERM FILE 101 0020266

COORDINATES
 LAT/LONG... 44-28.20 N 110-51.52 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HILLSIDE GROUP - UNNAMED SPRING
 LOCATION..... LOMBARDE-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING

COUNTY..... TETON
MAP REFERENCE..... OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: GUTTER OF HILL ON WESTERN SIDE OF UPPER GEYSER BASIN.
SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/14

SAMPLE NUMBER..... 6

TEMPERATURE (C)..... 65.

DISCHARGE..... R 11. L/MIN

OTHER SAMPLE INFORMATION: SMALL CLEAR POOL 1M IN DIAMETER.

GAS ANALYSIS DATE/ANALYST..... 1971/06/14 GUNTER, B.D.

ANALYSIS IN MOLE %

AR.....	1.3	N2....	84.1
CH4....	0.28	O2....	6.9
C2H6....			
CO2....	7.5		

H2..... N OTHER ANALYTICAL DATA: AR/N2=1.56

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX..... NEH-213

REFERENCE..... GUNTER, 1973

ISOTOPES LOG/01

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: HUCKLEBERRY HOT SPRINGS
LOCATION: TOWNSHIP-RANGE: 48N 115W 20 NE OF NW
COUNTRY: UNITED STATES LAT/LONG: 44-06-88 N 110-41-18 W
STATE: WYOMING UTM ZONE: +12
COUNTY: TETON NORTHING: 48844440.
PROVINCIAL PROVINCE: S25100.

MAP REFERENCE: HUCKLEBERRY MOUNTAIN 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1972/06/00

TEMPERATURE (C)..... 0 71.0

OTHER SAMPLE INFORMATION: MANY SMALL SPRINGS AND SEEPS.

WATER ANALYSIS

PH..... 7.1

CHARGE INHALANCE (% DIFF)..... 1.2

ANALYSIS IN PPM

AL.....	CR.....	Mg.....	1.1	SiO2.....	124.
Na.....	F.....	Na.....	20.1	SiO2.....	124.
HE.....	FE(TOT)	Na.....	0.0	SiO2.....	124.
CA.....	HC03.....	NO3.....	0.1	SiO2.....	124.
CL.....	1.2.				
CO.....	K.....	7.8			

QUALIFICATION FIELD: OTHER SPRINGS 45 TO 71 DEG C.

REFERENCE AND IDENTIFICATION

COMPILED BY: HEASLER, H. P.

COMPILER AFFILIATION: UNIVERSITY OF WYOMING

REFERENCE: BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00172

GEOTHERMAL FILE 101 0075072

ISOTOPES LOG/01

RECORD 00173

GEOThERM SAMPLE-EIÉ
 NAME OF SAMPLE SOURCE... HUCKLEBERRY HOT SPRINGS
 LOCATION TOWNSHIP-BRANGE
 COUNTRY... UNITED STATES 48N 115W 20 NE OF NW
 STATE... WYOMING
 COUNTY... TETON
 GEOLOGIC PROVINCE...
 MAP REFERENCE...
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1976/09/21
 TEMPERATURE (C)... 45.0
 DISCHARGE... 1136 L/MIN
 OTHER SAMPLE INFORMATION.. MANY SMALL SPRINGS AND SEEPS.
 WATER ANALYSIS

	PPM	1.B	L.I.	S....	L 0.001	ISOTOPES (D2O/D)
SPECIFIC CONDUCTANCE	950.	CR... L 0.1	Mg... 0.7			
TOTAL DISSOLVED SOLIDS	688.	CS... MN... 0.06				
CHARGE IMBALANCE (% DIFF)	9.2	CU... L 0.01				
ANALYSIS IN PPM		F... 9.9	NA... 200.	S102.	170.	
Ag... L 0.5	CO3... N					
Al... 0.1	CR... L 0.1					
As... 0.1	CS... MN... 0.06					
Au... 0.1	CU... L 0.01					
H... 0.14	F... 9.9					
HA... L 0.5	FE (TOT) N	NH... 200.	S102.	170.		
HF... 0.1	GE... 380.	NI... L 0.1				
IR... 9.05	HC03... NO3... 0.1	Pb... 0.1	504..	11.		
Ca-Mg... 0.01	HG... 0.029					
CD... 0.01						
CL... 120.	K... 8.6					
CO... 0.01	OTHER SPRINGS 45 TO 71 DEG C.	ZN... L 0.02				

QUALIFICATION FIELD... OTHER SPRINGS 45 TO 71 DEG C. POSSIBLE SUBSURFACE TEMPERATURE OF 150 C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... H. P. HÄASLER
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00174

GEOThERM SAMPLE-EIÉ
 NAME OF SAMPLE SOURCE... HUCKLEBERRY HOT SPRINGS
 LOCATION TOWNSHIP-BRANGE
 COUNTRY... UNITED STATES 48N 115W 20 NE OF NW
 STATE... WYOMING
 COUNTY... TETON
 GEOLOGIC PROVINCE...
 MAP REFERENCE...
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1975/09/00
 TEMPERATURE (C)... 61.0
 OTHER SAMPLE INFORMATION.. MANY SMALL SPRINGS AND SEEPS.
 WATER ANALYSIS

ÉTUDE UNIAxes
 LAT/LONG... 44-06-88 N 110-41.18 W
 UTM ZONE... +12
 NORTHING... 4884440.
 S2510U.

GÉOTHERM FILE IUT 0075071

TOTAL DISSOLVED SOLIDS..... 837.
 CHARGE IN THERMALANCE (% DIFF).... 5.3
 ANALYSIS IN PPM:
 AG..... CO3..... N
 AL..... CR..... MG..... 2°.
 H..... F..... NA..... 197.
 HE..... FE(TOT)..... SI02..... 118.
 CA..... HC03..... NB..... 504..
 CL..... 14..
 CO..... K..... 14°.

QUALIFICATION FIELD..... OTHER SPRINGS 45 TO 71 DEG C. POSSIBLE SUBSURFACE TEMPERATURE OF 150 C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILE AFFILIATION..... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00175

GEOOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HUCKLEBERRY HOT SPRINGS

LOCATION... TOWNSHIP-BRANGE

COUNTRY... UNITED STATES

STAFF... WYOMING

COUNTY... TETON

GEOLOGIC PROVINCE...

MAP REFERENCE... HUCKLEBERRY MOUNTAIN 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1973/10/02

TEMPERATURE (C)... 61.0

OTHER SAMPLE INFORMATION... MANY SMALL SPRINGS AND SEEPS.
 WATER ANALYSIS

P.H..... 7.4

SPECIFIC CONDUCTANCE..... 950.

TOTAL DISSOLVED SOLIDS..... 613.

CHARGE THERMANCE (% DIFF).... 3.7

ANALYSIS IN PPM

AI.....	CR.....	MG.....	0°4
H.....	F.....	NA.....	200.
HE.....	FE(TOT).....	NB.....	SI02..... 110.
CA.....	HC03.....	NO3... N	504.. 9.9
CL.....	92..		

QUALIFICATION FIELD..... OTHER SPRINGS 45 TO 71 DEG C. POSSIBLE SUBSURFACE TEMPERATURE OF 150 C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILE AFFILIATION..... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00176

GEOOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... JACKSON LAKE HOT SPRINGS
 LOCATION... TOWNSHIP-BRANGE

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

GEOOTHERM FILE ID: 0075073

COORDINATES
 LAT/LONG... 43-57.50 N 110-41.75 W
 UTM ZONE... +12
 NORTHING... 4867074.
 S25100.

GEOLOGIC PROVINCE... 41
MAP REFERENCE..... COLIFER HAY 1:24000
OTHER LOCALITY INFORMATION: SPRING NORMALLY COVERED BY JACKSON LAKE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/LECTURER..... 1977/09/00
TEMPERATURE (C)..... 0 72.0
DISCHARGE..... 0
OTHER SAMPLE INFORMATION: LOW LAKE LEVELS HAVE EXPOSED A NUMBER OF SPRINGS.
QUALIFICATION FIELD..... SPRINGS RANGE IN TEMPERATURE FROM 24 TO 72 DEG C. FLOW IS "GREAT"
REFERENCE AND IDENTIFICATION
COMPILED BY..... HEASLER, H. P.
COMPILER AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00177

GEOTERM SAMPLE FILE
NAME OF SAMPLE SOURCE... KELLY WARM SPRING
LOCATION TOWNSHIP-RANGE
COUNTRY..... UNITED STATES 42N 115W 02 NE OF NW
STATE..... WYOMING
COUNTY..... TETON
COUNTY..... 41
GEOLOGIC PROVINCE...
MAP REFERENCE..... SHADOW MOUNTAIN 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/LECTURER..... 1976/09/21
TEMPERATURE (C)..... 27.0
OTHER SAMPLE INFORMATION: ONE LARGE POOL WITH MANY SMALL VENTS.
WATER ANALYSIS
PH..... 8.2
SPECIFIC CONDUCTANCE..... 450.
TOTAL DISSOLVED SOLIDS... 2d4.
CHARGE BALANCE (% UFF) ... 2.7
ANALYSIS IN PPM
AG..... CO3..... N Li..... S..... L 0.001
Al..... CR..... N Mg..... 18.
H..... 0.05 F..... 0.9 NH..... 7.6 SiO2. 1B.
HE..... FE(10T). NB..... 504.. 7B.
CA..... 94. HCO3..... 180. NO3.. 0.3
CL..... 3.1 K.....
CD.....
REFERENCE AND IDENTIFICATION
COMPILED BY..... HEASLER, H. P.
COMPILER AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00178
GEOTERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - IMPERIAL GEYSER
LOCATION TOWNSHIP-RANGE
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: SOUTHWEST CORNER OF BASIN BY TWIN BUTTES.

RECORD 00179
GEOTERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - IMPERIAL GEYSER
LOCATION TOWNSHIP-RANGE
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: SOUTHWEST CORNER OF BASIN BY TWIN BUTTES.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/LECTUR..... 1965/06/00
 SAMPLE NUMBER..... 33
 TEMPERATURE (C)..... 87.

GAS ANALYSIS

DATE/ANALYST..... 1965/06 GUNTER, D.U. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH₄... 0.16
 C₂H₆
 CO... 96.
 H₂... L 0.4
 OTHER ANALYTICAL DATA... PH = 8.8.
 QUALIFICATION FIELD, ID# = 02 = AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-245
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOTHERM SAMPLE-ELE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - BATH SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: RIVER GROUP.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 87

GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, D.U. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 AR... 1.1
 CH₄... N
 C₂H₆
 CO... 24.
 H₂... N

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-245
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00179

GEOTHERM FILE ID# 0020379

COORDINATES
 LAT/LONG... 44-32.2 N 110-50. W

ISOTOPES_100/00

RECORD 00180

GEOTHERM FILE ID# 0020378

COORDINATES
 LAT/LONG... 44-33.2 N 110-50. W

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - BATH SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: RIVER GROUP.

RECORD 00180

GEOTHERM FILE ID# 0020378

COORDINATES
 LAT/LONG... 44-33.2 N 110-50. W

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/06/00
SAMPLE NUMBER..... 22

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄	0.35	H2S.....	N
C ₂ H ₆	0.5	N ₂	0 12.85
H ₂	65.	O ₂	1.3

QUALIFICATION FIELD N₂ = NR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPLIER CROSS INDEX... NEH-236
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00181

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FIREHOLE LAKE
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: EAST OF HOT LAKE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/06/00

WATER ANALYSIS

DATE/ANALYST..... 1930/06/00

ANALYSIS IN ppm

AG.....	CO ₂ N	SO ₄	41.
HE.....	FE(II).....		
CA.....	HC ₀₃ 146.		

CLIMATE: 6.3.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00182

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FIREHOLE POOL
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: EAST OF FIREHOLE LAKE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 28

TEMPERATURE (C)..... 90.5

GAS ANALYSIS
DATE/ANALYST..... 1965/06/00 GUNTER, H.D. AND MUSGRAVE, H.C.

GEOTHERM FILE ID: 0020369

COORDINATES
LAT/LONG... 44-32-30 N 110-47.02 W

RECORD 00183

COORDINATES
LAT/LONG... 44-32-30 N 110-47.02 W

RECORD 00184

COORDINATES
LAT/LONG... 44-32-30 N 110-46.98 W

ANALYSIS IN MULE &

CH₄... 1.5
C₂H₆...
CO₂...
H₂... 0.4

OTHER ANALYTICAL DATA... PH = 8.4.
QUALIFICATION FIELD... N₂ = 02 + AR.
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-240
REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FIREHOLE POOL
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING

COUNTY... TETON
MAP REFERENCE... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: EAST OF FIREHOLE LAKE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR... 1930/07/00
SAMPLE NUMBER..... 25

GAS ANALYSIS IN VOLUME %

CH₄... 1.6
C₂H₆...
CO₂... 6.3.

H₂... N
N₂... N₂ = N₂ + AR.
QUALIFICATION FIELD... N₂ = N₂ + AR.
REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-240
REFERENCE... ALLEN AND DAY, 1935

RECORD 00183

GEOTHERM FILE ID: 0020368

COORDINATES
LAT/LONG... 44-32-30 N 110-46.98 W
ISOTOPES_000201

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FIREHOLE POOL
LOCATION

UNITED STATES

WYOMING

COUNTY... TETON
MAP REFERENCE... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: EAST OF FIREHOLE LAKE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR... 1965/07/00

SAMPLE NUMBER... 81

POINT OF COLLECTION... EAST END OF POOL

TEMPERATURE (C)... 91.

GAS ANALYSIS
DATE / ANALYST... 1965/07/00 GUNTER, H.D. AND MUSGRAVE, H.C.

ISOTOPES_000201

N₂... 37.37
O₂... 0.11.

CH₄...
C₂H₆...
CO₂...
H₂...
N₂...

QUALIFICATION FIELD... N₂ = N₂ + AR.
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-240
REFERENCE... GUNTER AND MUSGRAVE, 1966

RECORD 00184

GEOTHERM FILE ID: 0020370

COORDINATES
LAT/LONG... 44-32-30 N 110-46.98 W
ISOTOPES_000201

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FIREHOLE POOL
LOCATION

UNITED STATES

WYOMING

COUNTY... TETON
MAP REFERENCE... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: EAST OF FIREHOLE LAKE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR... 1965/07/00

SAMPLE NUMBER... 81

POINT OF COLLECTION... EAST END OF POOL

TEMPERATURE (C)... 91.

H₂... N
N₂... 29.95
O₂... 5.5

CH₄...
C₂H₆...
CO₂...
H₂...
N₂...

QUALIFICATION FIELD... N₂ = N₂ + AR.
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-240
REFERENCE... ALLEN AND DAY, 1935

RECORD 00184

GEOTHERM FILE ID: 0020370

COORDINATES
LAT/LONG... 44-32-30 N 110-46.98 W
ISOTOPES_000201

ANALYSIS IN MOLE %

AR...	0.03
CH ₄ ...	0.04
C ₂ H ₆ ...	
CO ₂ ...	9.5
H ₂ ...	N
OTHER ANALYTICAL DATA: PH = 7.5 (ESI. WITH PH PAPER).	
COMPILED BY... LAWSON, WILLIAM A.	
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY	
COMPLIER CROSS INDEX... NEH-258	
REFERENCE..... GUNTER AND MUSGRAVE, 1966	

ISOTOPES (00/00)

CH ₄ ...	0.03
C ₂ H ₆ ...	0.04
CO ₂ ...	9.5
H ₂ ...	1.3
OTHER ANALYTICAL DATA: PH = 7.5 (ESI. WITH PH PAPER).	
COMPILED BY... LAWSON, WILLIAM A.	
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY	
COMPLIER CROSS INDEX... NEH-258	
REFERENCE..... GUNTER AND MUSGRAVE, 1966	

RECORD 00185

GÉOTHERM-SAMPLE-FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FISSURE GROUP - EBONY SPRING 33

LOCATION TOWNSHIP-RANGE COORDINATES

COUNTRY... UNITED STATES LAT/LONG... 44-31.4 N 110-47.7 W

STATE... WYOMING

COUNTY... TETON

MAP REFERENCE... MADISON JUNCTION 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE / COLLECTOR... 1900/00/00

SAMPLE NUMBER... IV

GAS ANALYSIS IN VOLUME %

CH ₄ ...	H ₂ 5...	N
C ₂ H ₆ ...	N2...	13.8
CO ₂ ...	02...	1.5
H ₂ ...	B3...	1.5
OTHER ANALYTICAL DATA: PH = 7.5 (ESI. WITH PH PAPER).		
COMPILED BY... LAWSON, WILLIAM A.		
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY		
COMPLIER CROSS INDEX... NEH-258		
REFERENCE..... ALLEN AND DAY, 1935.		

RECORD 00186

GÉOTHERM-SAMPLE-FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FOUNTAIN GROUP - FOUNTAIN GEYSER

LOCATION TOWNSHIP-RANGE COORDINATES

COUNTRY... UNITED STATES LAT/LONG... 44-32.6 N 110-48.4 W

STATE... WYOMING

COUNTY... TETON

MAP REFERENCE... MAULSON JUNCTION 1:62500

OWNER LOCALITY INFORMATION: EASTERN EDGE OF BASIN NORTH OF TANGLED CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE / COLLECTOR... 1900/00/00

SAMPLE NUMBER... V

GAS ANALYSIS IN VOLUME %

CH ₄ ...	H ₂ 5...	N
C ₂ H ₆ ...	N2...	10.35
CO ₂ ...	02...	1.0
H ₂ ...	B3...	0.59
OTHER ANALYTICAL DATA: PH = 7.5 (ESI. WITH PH PAPER).		
COMPILED BY... LAWSON, WILLIAM A.		
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY		
COMPLIER CROSS INDEX... NEH-258		
REFERENCE..... ALLEN AND DAY, 1935.		

ISOTOPES (00/00)

RÉFÉRENCE AND IDENTIFICATION
 COMPILED BY LAWSON, WILLIAM A.
 COMPLIER AFFILIATION .. U.S. GEOLOGICAL SURVEY
 COMPLIER CROSS INDEX .. NEH-233
 REFERENCE ALLEN AND DAY, 1935.

RECORD 00187

GEOETHERM SAMPLE-EFILE
 NAME OF SAMPLE SOURCE ... LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIAMOND SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 MAP REFERENCE MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SOUTHEAST EDGE OF BASIN.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR 1965/00/00
 SAMPLE NUMBER 104
 TEMPERATURE (C) 84.0
 GAS ANALYSIS DATE/ANALYST 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH₄ 2.3
 C₂H₆ N2 87.46
 CO₂ 3.0 / 02 q 6.5
 H₂ N OTHER ANALYTICAL DATA... PH = 8. (EST. WITH PH PAPER).
 QUALIFICATION FIELD O₂ = O₂ + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY LAWSON, WILLIAM A.
 COMPLIER AFFILIATION .. U.S. GEOLOGICAL SURVEY
 COMPLIER CROSS INDEX .. NEH-261
 REFERENCE GUNTER AND MUSGRAVE, 1966.

RECORD 00188

GEOETHERM SAMPLE-EFILE
 NAME OF SAMPLE SOURCE ... LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIAMOND SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 MAP REFERENCE MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SOUTH EASTERN EDGE OF BASIN.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR 1930/00/00
 SAMPLE NUMBER 24
 GAS ANALYSIS DATE/ANALYST 1930/00/00
 ANALYSIS IN VOLUME %
 CH₄ 0.0
 C₂H₆ N2 49.0
 CO₂ 44.0
 H₂ 02 1.0
 QUALIFICATION FIELD N₂ = N₂ + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPUTER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPUTER CROSS INDEX... NEH-238
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00189

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - IMPERIAL GEYSER
 LOCATION COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: SOUTHWEST CORNER OF BASIN, BY TWIN BUTTES.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 20
 DEPOSITS OR ALTERATION.... SILICA SINTER DEPOSITS
 OTHER SAMPLE INFORMATION: TEMPERATURE = 99.9 DEGREES C AT A DEPTH OF 72 FT. SEPTEMBER 1929.
 WATER ANALYSIS
 CHARGE IMBALANCE (% DIFF)... 0.3
 ANALYSIS IN ppm
 AG..... CO3..... 129.
 AL..... CR..... MG... N
 B..... F..... 15. NA...
 BE..... FE(TOT)..... 295. SI02.
 CA..... 2. NB... 504..
 CL..... HCO3..... 127.
 CL..... 200. 22.
 CO..... K..... 18.
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4... 0.35 H2S... N
 C2H6... 86. N2... 0 11.8
 CO2... 2.0. O 2.0
 H2... N
 OTHER ANALYTICAL DATA... S2n3 = 2. PPM.
 QUANTIFICATION FIELD... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPUTER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPUTER CROSS INDEX... NEH-234
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00190

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - IMPERIAL GEYSER
 LOCATION COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: SOUTHWEST CORNER OF BASIN BY TWIN BUTTES.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1963/06/00

GEOTHERM FILE I01 0020359

COORDINATES
 LAT/LONG... 44-31-47 N 110-52-32 W

COORDINATES
 LAT/LONG... 44-31-47 N 110-52-32 W

COORDINATES
 LAT/LONG... 44-31-47 N 110-52-32 W

SAMPLE NUMBER..... 32
 TEMPERATURE (C)..... 89.
 WATER ANALYSIS
 ANALYSIS
 H2O.....
 GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 C2H6.....
 CO2....
 H2....
 CH4....
 QUANTIFICATION FIELD IDENTIFICATION
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-244
 REFERENCE..... GUNTER AND MUSGRAVE • 1966

RECORD 00191

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - KALEIDOSCOPE GROUP - UNNAMED SPRING
 LOCATION
 CITY/TOWN..... JUNCTION 1:62500
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: ONE THIRD MILE NORTHWEST OF FOUNTAIN GROUP.
 SAME/FE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/06/00
 SAMPLE NUMBER..... 23

GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4....
 CO2....
 H2....
 QUANTIFICATION FIELD IDENTIFICATION
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-244
 REFERENCE..... ALLEN AND DAY, 1935.

RECOR D 00191
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING
 LOCATION
 CITY/TOWN..... JUNCTION 1:62500
 STATE..... WYOMING
 MAP REFERENCE..... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 4/4 M NORTH OF DIRT ROAD, 1/2 MILE EAST OF HIGHWAY: PORCUPINE HILLS.
 SAME/FE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/07 GUNTER, B.D.

RECORD 00192

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING
 LOCATION
 CITY/TOWN..... JUNCTION 1:62500
 STATE..... WYOMING
 MAP REFERENCE..... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 4/4 M NORTH OF DIRT ROAD, 1/2 MILE EAST OF HIGHWAY: PORCUPINE HILLS.
 SAME/FE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/07 GUNTER, B.D.

SAMPLE NUMBER..... 14
GAS ANALYSIS DATE/ANALYST..... 1971/06/00 GUNTER, B.O.

ISOTOPES_100/01

ANALYSIS IN MOLE %
AR... 0.12
CH₄... 0.52
C₂H₆...
C₃H₈...
H₂... 94.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-269

RECORD 00193

GEOTHERM SAMPLE LILÉ
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING
LOCATION COUNTY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: PURCHLINE HILLS; 1/2 MILE EAST OF HIGHWAY; 30M NORTH OF DIRT ROAD.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00 GUNTER AND MUSGRAVE
SAMPLE NUMBER..... 74
TEMPERATURE (C)..... 29.5
OTHER SAMPLE INFORMATION: SHALLOW CLEAR POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.
ANALYSIS IN MOLE %
AR... 0.04
CH₄... 0.45
C₂H₆...
C₃H₈... 96.
H₂... L 0.4

OTHER ANALYTICAL DATA: PH=5.

REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-251
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00194

GEOTHERM SAMPLE LILÉ
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING
LOCATION COUNTY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: PURCHLINE HILLS; ABOUT 20M EAST OF NO. 14
SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/07 GUNTER, B.O.
ANALYSIS IN MOLE %
AR... 0.12
CH₄... 0.52
C₂H₆...
C₃H₈...
H₂... 94.

SAMPLE NUMBER..... 76
 TEMPERATURE (C)..... 75.
 DISCHARGE..... R 4. L/MIN
 OTHER SAMPLE INFORMATION.. SHALLOW MUDDY POOL. FLOW RATE OF 4.1 L/MIN ON 7/10/72.
 GAS ANALYSIS DATE/ANALYST..... 1971/06/00 GUNTER, B.D.
 ANALYSIS IN MOLE %
 AR... 9.56
 CH₄... 1.5
 C₂H₆...
 CO₂... 6.0
 H₂... 14
 OTHER ANALYTICAL DATA... PH = 7.6.
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX... NEH-270
 REFERENCE..... GUNTER, 1973

RECORD 00195

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE
 COUNTY..... UNITED STATES
 STATE... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... MAUDISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: PURCUPINE HILLS; 30M WEST OF NO. 74
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/07/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 76
 TEMPERATURE (C)..... 75.
 GAS ANALYSIS DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 AR... 0.34
 CH₄... 1.6
 C₂H₆...
 CO₂... H₂...
 H₂... L 0.4
 OTHER ANALYTICAL DATA... PH = 7.6.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX... NEH-253
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES_LQZLW

RECORD 00196

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE
 COUNTY..... UNITED STATES
 STATE... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... MAUDISON JUNCTION 1:62500

GEOETHERM FILE ID# 0020385
 LAT/LNG... 44-34.00 N 110-48.25 W

GEOETHERM FILE ID# 0020384
 LAT/LNG... 44-34.00 N 110-48.23 W

OTHER LOCALITY INFORMATION: ONE METER SOUTH OF NO. 741 PORCUPINE HILLS.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/07/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 75
 TEMPERATURE (C)..... 29.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN HOLE

AR....	0.01
CH ₄	0.3
C ₂ H ₆	
C ₃ H ₈	
CO ₂	9.6
HO....	1.04

OTHER ANALYTICAL DATA... PH = 5.2.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPUTER CROSS INDEX..... NEH-252
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MOUND SPRING
 LOCATION..... LOWER GEYSER BASIN - MOUND SPRING
 COUNTRY..... UNITED STATES

STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: 366M SOUTHEAST OF SENTINEL CONE, SENTINEL GROUP.
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00

SAMPLE NUMBER..... 113

TEMPERATURE (C)..... 94.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN HOLE

CH ₄	0.15
C ₂ H ₆	
C ₃ H ₈	1
HO....	1.04

QUALIFICATION FIELD..... Q2 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPUTER CROSS INDEX..... NEH-266
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00198

GEOTHERM FILE 10: 0020400

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - JUEEN'S LAUNDRY
 LOCATION..... LOWER GEYSER BASIN - JUEEN'S LAUNDRY
 COUNTRY..... UNITED STATES

STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE.....

GEOTHERM FILE 10: 0020392

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - JUEEN'S LAUNDRY
 LOCATION..... LOWER GEYSER BASIN - JUEEN'S LAUNDRY
 COUNTRY..... UNITED STATES

STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE.....

OBJECT LOCALITY INFORMATION: SENTINEL MEADOWS 940 FT. SOUTH OF SENTINEL CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION..... 1970/06/00

WATER ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN PPM

ANALYST..... 21.

WE.....

FEET.....

HC03.....

RÉFÉRENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX..... NEH-271

REFERENCE..... GUNTER, 1973

ISOTOPES_102001

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRING
LOCATION..... TOWNSHIP-BRANGE

STATE..... UNITED STATES

COUNTY..... WYOMING

CDNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: JUM S-SW OF SKELETON POOL.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION..... 1971/06/07 GUNTER, B.D.

SAMPLE NUMBER..... 89

TEMPERATURE (C)..... 63.

DISCHARGE..... R 3.5 L/MIN

OTHER SAMPLE INFORMATION: LARGE GREEN POOL WITH NO RUNOFF.

IAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.D.

ANALYSIS IN MOLES

AR..... 1.2

CH₄..... 4.5

C₂H₆.....

C₃H₈..... 19.

H₂..... 1

N₂..... 68.9

O₂..... 6.3

REMARKS

RECORD 01199

RECORD 01199

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRING
LOCATION..... TOWNSHIP-BRANGE

STATE..... UNITED STATES

COUNTY..... WYOMING

CDNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: JUM S-SW OF SKELETON POOL.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/ANALYST..... 1971/06/00 GUNTER, B.D.

ANALYSIS IN MOLES

AR..... 1.2

CH₄..... 4.5

C₂H₆.....

C₃H₈..... 19.

H₂..... 1

N₂..... 68.9

O₂..... 6.3

REMARKS

RECORD 01200

DATE/LECTUR..... 1965/07/00
 SAMPLE NUMBER..... 89
 TEMPERATURE (C)..... 64.
GAS ANALYSIS
 DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 AIR..... 1.1
 CH4..... 1.3
 C2H6..... 0.2
 CO2..... 2.0
 H2..... 0.9
 OTHER ANALYTICAL DATA... PH = 7.0.
REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-266
 REFERENCE..... GUNTER AND MUSGRAVE, 1966.

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE.... LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE SPRINGS
 LOCATION..... IONOSPHERE-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SOUTHWEST OF RUSH LAKE, EAST BANK OF FIREHOLE RIVER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/07/00
 SAMPLE NUMBER..... 77
 TEMPERATURE (C)..... 94.5
GAS ANALYSIS
 DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 AIR..... 0.35
 CH4..... 2.0
 CO2..... 1.1
 H2..... 1
 OTHER ANALYTICAL DATA... PH = 8.
REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-254
 REFERENCE..... GUNTER AND MUSGRAVE, 1966.

RECORD 00201
GEOTHERM FILE 101 0020377
 NAME OF SAMPLE SOURCE.... LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE SPRINGS
 LOCATION..... IONOSPHERE-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SOUTHWEST OF RUSH LAKE, EAST BANK OF FIREHOLE RIVER.
GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE.... LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE SPRINGS
 LOCATION..... IONOSPHERE-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1:62500

TYPE LOCALITY INFORMATION: SOUTHWEST OF RUSH LAKE, EAST BANK OF FIREHOLE RIVER.
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 21

DEPOSITS OR ALTERATION.....

OTHER SAMPLE INFORMATION: Large, deep pool with superheated water, and high discharge rate.

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ...	0.8
C ₂ H ₆ ...	
C ₃ H ₈ ...	0.01
H ₂ ...	0.12
CO...	0.12
CO ₂ ...	0.12
CH ₄ ...	0.12
CO...	0.12
CO ₂ ...	0.12
N ₂ ...	0.12
O ₂ ...	0.12
He...	0.12
Ar...	0.12

QUANTIFICATION FIELD? SPECIFIC CO₂ = CO₂ + H₂S; N₂ = N₂ + Ar.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX..... NEH-235

REFERENCE..... ALLEN AND DAY, 1935

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: LOWER GEYSER BASIN - SENTINEL CONE

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING,

COUNTY..... TETON

MAP REFERENCE: MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: SOUTH SIDE OF SENTINEL CREEK IN SENTINEL MEADOWS.
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

DATE/ANALYST..... 1930/00/00

AG....	CO ₂	13.
HE....	FE(OTI)....	NB....
CA....	HCO ₃	279.
CL....		259.
CH ₄		
C ₂ H ₆		
C ₃ H ₈		
CO....		
CO ₂		
N ₂		
O ₂		
He....		
Ar....		

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00204

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL CONE ("STEEP CONE")

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING,

COUNTY..... TETON

MAP REFERENCE: MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: SOUTH SIDE OF SENTINEL CREEK IN SENTINEL MEADOWS.
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/15 GRIFFER, B.U.

SAMPLE NUMBER..... 109

RECORD 00203

GEOTHERM FILE ID: 0020389

GEOTHERM

NAME OF SAMPLE SOURCE: LOWER GEYSER BASIN - SENTINEL CONE ("STEEP CONE")

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING,

COUNTY..... TETON

MAP REFERENCE: MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: SOUTH SIDE OF SENTINEL CREEK IN SENTINEL MEADOWS.
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/15 GRIFFER, B.U.

SAMPLE NUMBER..... 109

TEMPERATURE (°C)..... 93.
 DISCHARGE..... K 1H. L/MIN
 GEOFHERM SAMPLE INFORMATION - "STEP CONE."
 GAS ANALYSIS DATE/ANALYST..... 1971/06/00 GUNTER, B.D.
 ANALYSIS IN MULE &
 AH..... 1.4
 CH4.... 3.4
 C2-H6...
 CO2.... 8.9
 H2.... N
 REFERENCING AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 MAP REFERENCE..... U.S. GEOLOGICAL SURVEY
 COMPTILER CROSS INDEX..... NEH-212
 REFERENCING..... GUNTER, 1973

RECORD 00205

GEOHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL CONE ("STEEP CONE")
 LOCATION LAT/LONG..... 44-33.43 N 110-51.45 W
 COUNTRY..... COORDINATES
 STATE.....
 COUNTY.....
 MAP REFERENCE..... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SOUTH SIDE OF SENTINEL MEADOWS.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 109
 TEMPERATURE (°C)..... 93.5
 GAS ANALYSIS DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MULE &
 CH4.... 1.4
 C2-H6...
 CO2.... 6.8
 H2.... L 0.4
 QUALIFICATION FIELD..... 02 + AK.
 REFERENCING AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 MAP REFERENCE..... U.S. GEOLOGICAL SURVEY
 COMPTILER CROSS INDEX..... NEH-262
 REFERENCING..... GUNTER AND MUSGRAVE, 1966.

ISOTOPEES_100Z01

RECORD 00206

GEOHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S LAUNDRY
 LOCATION LAT/LONG..... 44-33.47 N 110-52.10 W
 COUNTRY..... COORDINATES
 STATE.....
 COUNTY.....
 MAP REFERENCE..... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SENTINEL MEADOWS 940 FT. SOUTH OF SENTINEL CREEK.
 SAMPLE DESCRIPTION AND CONDITIONS

RECORD 00206

GEOHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S LAUNDRY
 LOCATION LAT/LONG..... 44-33.47 N 110-52.10 W
 COUNTRY..... COORDINATES
 STATE.....
 COUNTY.....
 MAP REFERENCE..... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SENTINEL MEADOWS 940 FT. SOUTH OF SENTINEL CREEK.

DATE / COLLECTOR 1965/00/00 COUNTER AND MUSGRAVE
 SAMPLE NUMBER 111
 TEMPERATURE (°) 89.5
GAS ANALYSIS
 DATE / ANALYST 1965/00/00 COUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH₄ 0.11
 C₂H₆
 CO₂ 6.7
 H₂ L. 0.4
 OTHER ANALYTICAL DATA PH = 8.3
 QUALIFICATION FIELD O₂ = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY LAWSON, WILLIAM A.
 COMPILER AFFILIATION U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX NEH-264
 REFERENCE COUNTER AND MUSGRAVE, 1966

RECORD 00207
GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 MAP REFERENCE MAULSON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 40M SOUTH OF QUEEN'S LAUNDRY.
 SAMPLE DESCRIPTION AND QUALITY
 DATE / COLLECTOR 1965/00/00
 SAMPLE NUMBER 110
 TEMPERATURE (C) 69.5
GAS ANALYSIS
 DATE / ANALYST 1965/00/00 COUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH₄ 1.2
 C₂H₆ 1.6
 CO₂ L. 0.4
 OTHER ANALYTICAL DATA PH = 7.4
 QUALIFICATION FIELD O₂ = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY LAWSON, WILLIAM A.
 COMPILER AFFILIATION U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX NEH-263
 REFERENCE COUNTER AND MUSGRAVE, 1966.

RECORD 00208
GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 MAP REFERENCE MAULSON JUNCTION 1:62500

RECORD 00209
GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S LAUNDRY
 LOCATION TOWNSHIP-RANGE
 COUNTY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 MAP REFERENCE MAULSON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: SENTINEL MEADOWS 940 FT. SOUTH OF SENTINEL CREEK.

SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTED: 1971/06/16 GUNTER, B.O.
SAMPLE NUMBER: 111

TEMPERATURE (C)..... 96.

DISCHARGE..... 488. L/MIN
OTHER SAMPLE INFORMATION: FLOW RATE OF 425. L/MIN ON 7/11/72.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.O.
ANALYSIS IN HOLE #

AR.... 1.5
CH4.... 2.2

CO2.... 16.

N2.... 75.6

O2.... 4.5

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

CIMPLER AFFILIATION..... U.S. GEOLOGICAL SURVEY

CIMPLER CROSS INDEX..... NEM-273

REFERENCE..... GUNTER, 1973

RECORD 00209

GEOGRAPHIC SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - MOUND SPRING
LOCATION..... TOWNSHIP-RANGE
COUNTY..... UNITED STATES
STATE..... WYOMING

MAP REFERENCE..... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: 366M SOUTHEAST OF SENTINEL CONE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION..... 1936/08/00

WATER ANALYSIS

DATE/ANALYST..... 1936/08/00

ANALYSIS IN PPM

AG.... CO3.... 64.
BE.... FE(10).... NB....
CA.... HC03.... 183.

CL.... 298.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

CIMPLER AFFILIATION..... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

ISOTOPE LOGON

RECORD 00210

GEOGRAPHIC SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED SPRING
LOCATION..... TOWNSHIP-RANGE
COUNTY..... UNITED STATES
STATE..... WYOMING

MAP REFERENCE..... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: 15M NORTHWEST OF SENTINEL CONE.
SAMPLE DESCRIPTION AND CONDITIONS

GEOGRAPHIC SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED SPRING
LOCATION..... TOWNSHIP-RANGE
COUNTY..... UNITED STATES
STATE..... WYOMING

MAP REFERENCE..... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: 15M NORTHWEST OF SENTINEL CONE.

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 112
 THERM. NUMBER (C)..... 92.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MULE &
 CH4... 0.15
 C2H6...
 CO2... 95.
 H2... L. 0.⁴
 OTHER ANALYTICAL DATA.... PH = 8.
 QUALIFICATION FIELD..... U2 = U2 + AK.
 REFERENCE AND IDENTIFICATION
 COMPT'L BY..... LAWSON, WILLIAM A.
 COMPT'L AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPT'L CROSS INDEX... NEH-265
 REFERENCE..... GUNTER AND MUSGRAVE. 1966

GEOTHERM SAMPLE_E1F

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - FLAT CONE SPRING
 LOCATION..... TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MAJISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 1200 FT. NW OF SENTINEL CONE IN SENTINEL MEADOWS.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS
 DATE/ANALYST..... 1930/00/00
 ANALYSIS IN ppm
 Al... CO3... 15.
 Be... Fe(+)... NB...
 Ca... HCO3... 322.
 Cl... 219.

REFERENCE AND IDENTIFICATION
 COMPT'L BY..... LAWSON, WILLIAM A.
 COMPT'L AFFILIATION..... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY. 1935

GEOTHERM SAMPLE_E1F

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - ROSETTE GEYSER
 LOCATION..... TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MAJISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 450 FT. NW OF FLAT CONE SPRING IN SENTINEL MEADOWS.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS..... 1930/00/00

ISOTOPES_LQ06W

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 112
 THERM. NUMBER (C)..... 92.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MULE &
 CH4... 0.15
 C2H6...
 CO2... 95.
 H2... L. 0.⁴
 OTHER ANALYTICAL DATA.... PH = 8.
 QUALIFICATION FIELD..... U2 = U2 + AK.
 REFERENCE AND IDENTIFICATION
 COMPT'L BY..... LAWSON, WILLIAM A.
 COMPT'L AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPT'L CROSS INDEX... NEH-265
 REFERENCE..... GUNTER AND MUSGRAVE. 1966

RECORD 00211

GEOTHERM FILE 101 0020397
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - FLAT CONE SPRING
 LOCATION..... TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MAJISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 1200 FT. NW OF SENTINEL CONE IN SENTINEL MEADOWS.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS
 DATE/ANALYST..... 1930/00/00

ANALYSIS IN ppm
 Al... CO3... 15.
 Be... Fe(+)... NB...
 Ca... HCO3... 322.
 Cl... 219.

REFERENCE AND IDENTIFICATION
 COMPT'L BY..... LAWSON, WILLIAM A.
 COMPT'L AFFILIATION..... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY. 1935

RECORD 00212

GEOTHERM FILE 101 0020396
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - ROSETTE GEYSER
 LOCATION..... TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MAJISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 450 FT. NW OF FLAT CONE SPRING IN SENTINEL MEADOWS.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS..... 1930/00/00

ANALYSIS IN PPM		ANALYSIS IN PPM		ANALYSIS IN PPM	
AG.....	CO ₃	4.3.		NH.....	
HE.....	FE(TOT).....				
CA.....	HCO ₃	27.3.			
CL.....				\$04.00	24.
REFERENCE AND IDENTIFICATION					
COMPILED BY.....	.....	.....	.....	LAWSON, WILLIAM A.	
COMPLIER AFFILIATION.....	.....	.....	.....	I.S. GEOLOGICAL SURVEY	
REFERENCE NUMBER.....	.....	.....	.....	ALLEN AND DAY, 1935	

RECORD 00213
GEOTHERM FILE #U: 0020387
GEOTHERM SAMPLE FILE
NAME OF SAMPLE SURFACE...1 OWNER GEYSER HASIN - SURPRISE POOL
LOCATION TOWNSHIP-RANGE
COUNTRY..... UNITED STATES
COORDINATES LAT/LONG... 44-32-00 N 110-47-57 W

STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: NEXT TO ROAD, NORTH SIDE OF WHITE CREEK, WEST OF GREAT FOUNTAIN GEYSER.
SAMPLE DESCRIPTION AND CONDITIONS

DATE/LOCATION..... 1965/09/00
 SAMPLE NUMBER..... 14
 TEMPERATURE (C)..... 45
 OTHER SAMPLE INFORMATION.. SMALL WATER POOL.
 GAS ANALYSIS
 DATE ANALYST..... 1965/09/00 MAZOR AND WASSERBURG
 ANALYSIS IN MOLE %

AR... 0.016
 CH₆... 2.5
 C₂H₆...
 CO₂...
 HF... 0.001
 OTHER ANALYTICAL DATA: NE = 9.1 x 10⁽⁻⁵⁾; KR = 1.5 x 10⁽⁻⁵⁾; XE = 2.3 x 10⁽⁻⁶⁾; PH = 7.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPUTER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPUTER CRUST INDEX... NEH-2/4
 REFERENCE..... MAZOK AND WASSERBURG, 1965

RECORD 00214
GEOTHERM FILE ID: 00203
GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE ••• LOWER GEYSER BASIN - UNNAMED MUD POT
LOCATION LOWNSHIE-HANGE
COUNTRY UNITED STATES
COORDINATES LAT/LONG... 44-32N 110-53W

STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... JUNCTION 1:62500
 POINT LOCALITY INFORMATION: WEST OF IMPERIAL GEYSER.
 SAMPLE DESCRIPTION AND LOCALITIES
 DATE COLLECTED..... 1965/06/10
 SAMPLE NUMBER..... 34

ISOTOPE_100201

ANALYSIS IN MOLE * CH₄... n.49C₂H₆... 02...
CO₂... H₄... 11.43
H₂... L_{0.4} 02... q 3.7OTHER ANALYTICAL DATA... PH = 3.3
QUALIFICATION FIELD... 02 = 02 * AK.
REFERENCE AND IDENTIFICATIONCOMPILED BY... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPLIER CROSS INDEX... NEH-246
REFERENCE..... GUNTER AND HUGRAVE, 1966GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
LOCATION
COUNTRY... UNITED STATES
STAFF... WYOMING
COUNTY... TETON
SAMPLE DESCRIPTION AND CONDITIONSDATE/COLLECTOR... 1965/06/00
SAMPLE NUMBER... 18
TEMPERATURE (C)... 90°
OTHER SAMPLE INFORMATION... SMALL BOILING WATER POOL.GAS ANALYSIS
DATE/ANALYST... 1965/06/00 MAZUR AND WASSERBURGANALYSIS IN MOLE %
AK... 0.162 H₂S... N
CH₄... 5.4 C₂H₆... N2... 6.6
CO₂... 0.04 CO₂... 0.2 1.3
H₂... 0.6034 H₂...OTHER ANALYTICAL DATA... NE = 1.52 x 10(-4); KR = 3.4 x 10(-5); XE = 5.6 x 10(-6); pH=7.
REFERENCE AND IDENTIFICATIONCOMPILED BY... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPLIER CROSS INDEX... NEH-246
REFERENCE..... MAZUR AND WASSERBURG, 1965

RECORD 00215

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
LOCATION
COUNTRY... UNITED STATES
STAFF... WYOMING
COUNTY... TETON
MAP REFERENCE... MADISON JUNCTION 1:62500
DUE TO LOCALITY INFORMATION: 30' NORTH OF HEAD GEYSER.SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1965/06/00
SAMPLE NUMBER... 30
TEMPERATURE (C)... 75°
OTHER SAMPLE INFORMATION... CLEAR POOL WITH NO OVERFLOW.

RECORD 00216

GEOTHERM FILE ID: 0020388
LAT/LUNS... 44-32.2 N 110-47.30 W

COORDINATES

GEOTHERM FILE ID: 0020375

GAS ANALYSIS
DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
ANALYSIS IN MOLE %

ISOTOPES (L/mol)

CH₄... 1.5
C₂H₆
CO₂... 46.
H₂... L 0.4

QUALIFICATION FIELD... 02 = 02 + AR.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-242
REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOTERM SAMPLE-E16
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
LOCATION..... TOWNSHIP-RANGE
COUNTY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... MAULSON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: SUM EAST OF HIGHWAY, ACROSS FROM SURPRISE POOL.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1965/06/00
SAMPLE NUMBER..... 29
TEMPERATURE (C)..... 48.5

OTHER SAMPLE INFORMATION: LAKE CLEAR POOL.

GAS ANALYSIS
DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
ANALYSIS IN MOLE %

H₂... 92.19
O₂... 0 7.6

OTHER ANALYTICAL DATA... PH = 9.
QUALIFICATION FIELD... 02 = 02 + AR.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-241
REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOTERM SAMPLE-E16
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
LOCATION..... TOWNSHIP-RANGE
COUNTY..... UNITED STATES
STATE..... WYOMING
MAP REFERENCE..... MAULSON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: S-ST SITE OF FIREHOLE LAKE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1965/07/00

RECORD 00217

GEOTERM FILE ID: 0020374

COUNTIES
LAT/LONG... 44-31.58 N 110-47.48 W

RECORD 00218

GEOTERM FILE ID: 0020371

COUNTIES
LAT/LONG... 44-32.29 N 110-46.57 W

SAMPLE NUMBER..... 78
TEMPERATURE (C)..... 91.
OTHER SAMPLE INFORMATION.. SMALL WHITE SPRING.

GAS ANALYSIS
DATE/ANALYST..... 1965/07/00 GUNTER, H.D. AND MUSGRAVE, B.C.
ANALYSIS IN MOLE %

AR...	0.44
CH ₄ ...	1.11
C ₂ H ₆ ...	
CO ₂ ...	23.
HP...	0.4

OTHER ANALYTICAL DATA... PH = 7.5 (EST. WITH PH PAPER).
REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-255
REFERENCE..... GUNTER AND MUSGRAVE, 1966.

RECORD 00219
GEOGRAPHIC SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
LOCATION..... TOWNSHIP-RANGE
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: 1st SOUTH OF YOUNG HOPEFUL GEYSER, BY FIREHOLE LAKE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1965/07/00
SAMPLE NUMBER..... 80
TEMPERATURE (C)..... 93.
GAS ANALYSIS
DATE/ANALYST..... 1965/07/00 GUNTER, H.D. AND MUSGRAVE, B.C.
ANALYSIS IN MOLE %

AR...	0.30
CH ₄ ...	0.18
C ₂ H ₆ ...	
CO ₂ ...	96.
HP...	N

OTHER ANALYTICAL DATA... PH = 7.5 (EST. WITH PH PAPER).
REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-255
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00220
GEOGRAPHIC SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
LOCATION..... TOWNSHIP-RANGE
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... MADISON JUNCTION 1:62500

RECORD 00220
GEOGRAPHIC SAMPLE FILE
NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
LOCATION..... TOWNSHIP-RANGE
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: IN WEST OF YOUNG HOPEFUL GEYSER, BY FIREHOLE LAKE.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1965/07/00

SAMPLE NUMBER..... 79

TEMPERATURE (C)..... 42°

DEPOSITS OR ALTERATION..... CARBONATE WITH THIN INTERBEDDED MANGANESE DIOXIDES; UPAL (FROM ALLEN AND DAY 1925).

OTHER SAMPLE INFORMATION..... BLACK CONE POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, H.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR... 0.06

CH₄... 0.09

C₂H₆...

CO₂... 9.0

42° L 0.4

QUALIFICATION FIELD, IDENTIFICATION AND ILLUSTRATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX..... NEH-256

REFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES_100Z01

RECORD 00221

GEOTHERM FILE ID: 0020357

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE.... LOWER GEYSER BASIN - UNNAMED STEAM VENT

LOCATION INVENTORY RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: NORTH OF SPRAY GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/30

SAMPLE NUMBER..... 31

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, H.D. AND MUSGRAVE, B.C.

A ANALYSIS IN MOLE %

CH₄... 0.19

C₂H₆...

CO₂... 8.3

42° L 0.4

QUALIFICATION FIELD, IDENTIFICATION AND ILLUSTRATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX..... NEH-243

REFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES_100Z01

RECORD 00222

GEOTHERM FILE ID: 0020343

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE.... MIDWAY GEYSER BASIN - EXCELSIOR GEYSER

LOCATION INVENTORY RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

CROSS INDEX.....

REFERENCE.....

ISOTOPES_100Z01

LAT/LUNG..... 44-31° N 110-50° W

COUNTRY..... TETON
MATERIAL REFERENCE..... MADISON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: JUST SE OF VABM-MIWAY (725). FT.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/00/00
TEMPERATURE (C)..... 91°
OTHER SAMPLE INFORMATION: HIGH RATE OF DISCHARGE.

WATER ANALYSIS
CHARGE/THALANCE (% DIFF).... 0.0
ANALYSIS IN ppm
AG..... CO3..... N
AL..... CR..... N
3..... F..... N
HE..... F (TOT)..... 20. N
CA..... HC03..... 562. N
CL..... 271. N
CO..... K..... 14. B
QUALIFICATION FIELD..... B CALCULATED FROM B22 (AMOUNT IS QUESTIONABLE); S CALCULATED FROM S202.
REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

CAPTION AFFILIATION..... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935; FOR 1976 DATA SEE RECORD NO. 0075489.

ISOTOPES_100001

	Li.....	Mg.....	N.....	S.....	O 0.67
AG.....	CR.....	F.....	410.	S102.	237.
AL.....	FE (TOT).....	1.	NH.....	S04..	21.
3.....	HC03.....	562.			
CL.....					
CO.....					

RECORD 00223
GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE.... MIDWAY GEYSER BASIN - FAIRY CHEEK GROUP - UNNAMED SPRING
LOCATION..... LUMNTSHI RANGE
COUNTRY..... UNITED STATES
STAFF..... WYOMING
GEOLOGY..... TETON
MAP REFERENCE..... MADISON JUNCTION 1:62500
LOCALITY INFORMATION: JUN EAST OF DIRT ROAD ABOUT 1/3 OF WAY TO IMPERIAL GEYSER.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1971/06/12 GUNTER, H.D.
SAMPLE NUMBER..... 3d

TEMPERATURE (C)..... 93.

DISCHARGE..... 4 P.M. L/MIN

OTHER SAMPLE INFORMATION: LARGE SUPERHEATED SPRING WITH PERIODIC GEYSER ACTION. COULD BE SAME SPRING AS NO. 38
(GUNTER & MUSGRAVE, 1966)

GAS ANALYSIS

DATE/ANALYSIS..... 1971/06/00 GUNTER, H.D.

ANALYSIS IN MOLE %

	Li.....	Mg.....	N.....	S.....	O 0.67
Ag.....	1.2				
Ca.....	6.4				
CO2.....					
Cl.....					

ISOTOPES_100001

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

CAPTION AFFILIATION..... U.S. GEOLOGICAL SURVEY

CAPTION CROSS INDEX..... NEH-264

REFERENCE..... GUNTER, 1973

ISOTOPES_100001

RECORD 00224

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING
 LOCATION
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 1/4 MILE WEST OF ROAD, HALF WAY TO IMPERIAL GEYSER.
 SAMPLE DESCRIPTION AND COORDINATES
 DATE/COLLECTOR... 1971/06/04
 SAMPLE NUMBER... 35
 TEMPERATURE (°C)... 74
 OTHER SAMPLE INFORMATION... WHITE SPRING WITH BLACK DEPOSIT.

GAS ANALYSIS
 DATE/ANALYST..... 1971/06/00 GUNTER, H.D.
 ANALYSIS IN MOLE %
 AR... 0.51
 CH₄... 1.5
 C₂H₆...
 CO₂... 8.1
 H₂S...
 N₂...
 REFINEMENT AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-267
 REFERENCE..... GUNTER, 1973

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING
 LOCATION
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 1/2 MILE NORTH OF NO. 37, 30M EAST OF DIRT ROAD.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965/07/00
 SAMPLE NUMBER... 3H
 TEMPERATURE (°C)... 94.5
 OTHER SAMPLE INFORMATION... SUPERHEATED POOL.

GAS ANALYSIS
 DATE/ANALYST..... 1965/07/00 GUNTER, H.D. AND MUSGRAVE, H.C.
 ANALYSIS IN MOLE %
 CH₄... 5.0
 C₂H₆...
 CO₂... 4.4
 H₂S... L 0.4
 OTHER ANALYTICAL DATA... PH = H⁻⁴.
 QUALIFICATION FILED... O₂ = O₂ + AR.
 REFINEMENT AND IDENTIFICATION

LAWSON, WILLIAM A.

GEOETHERM FILE 101
 LAT/LONG... 44-32-18 N 110-51.25 W
 RECORD 00225

GEOETHERM FILE 101
 LAT/LONG... 44-32-33 N 110-50.53 W

Liquides_liquor

N₂... 47.95
 O₂... 0 2.9

OTHER ANALYTICAL DATA... PH = H⁻⁴.
 QUALIFICATION FILED... O₂ = O₂ + AR.
 REFINEMENT AND IDENTIFICATION

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-250
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING
 LOCATION
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 100M EAST OF ROAD.
 SAMPLE DESCRIPTION_AND_CONDITIONS
 DATE/COLLECTOR... 1965/07/00
 SAMPLE NUMBER... 37
 TEMPERATURE (C)... 82.0
 OTHER SAMPLE INFORMATION.. LARGE BLUE POOL.
 GAS ANALYSIS
 DATE/ANALYST... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH₄... 2.2 N2... 19.61
 C₂H₆... 0.2 O₂... 4.7
 CO₂... 74.0
 H₂... 0.4
 OTHER ANALYTICAL DATA... PH = 8.5.
 QUALIFICATION FIELD... U₂ = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-249
 REFERENCE... GUNTER AND MUSGRAVE, 1966

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING
 LOCATION
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 300M WEST OF NO. 35.
 SAMPLE DESCRIPTION_AND_CONDITIONS
 DATE/COLLECTOR... 1965/07/00
 SAMPLE NUMBER... 36
 TEMPERATURE (C)... 93.
 OTHER SAMPLE INFORMATION.. VERY SMALL POOL.
 GAS ANALYSIS
 DATE/ANALYST... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH₄... 0.95 N2... 20.68
 C₂H₆... 0.2 O₂... 1.2
 CO₂... 71.0
 H₂... 0.4
 ISOTOPES_100/02
 ISOTOPES_100/02

RECORD 00226

 GEOTHERM FILE ID: 0020354
 LAT/LONG... 44-32-15 N 110-51-10 W
 RECORD 00227

 GEOTHERM FILE ID: 0020353
 LAT/LONG... 44-32-18 N 110-51-27 W
 RECORD 00227

OTHER ANALYTICAL DATA... PH = 8.5
 QUALIFICATION FIELD... U2 = 02 + AH.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-248
 REFERENCE... GUNTER AND MUSGRAVE, 1966

RECORD 00228

~~GEOTERM SAMPLE FILE~~
 NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING
 LOCALITY... TOWNSHIP= RANGE
 COUNTY... UNITED STATES
 STATE... WYOMING
 CITY... TETON
 MAP REFERENCE... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: ONE QUARTER MILE WEST OF ROAD, HALF WAY TO IMPERIAL GEYSER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 35
 TEMPERATURE (C)... 92°
 DEPOSITS OR ALTERATION... BLACK DEPOSITS.
 OTHER SAMPLE INFORMATION... WHITE SPRING.

GAS ANALYSIS
 DATE/ANALYST... 1965/06/00 GUNTER, R.D. AND MUSGRAVE, H.C.
 ANALYSIS IN MOLE %

CH4... 2.4 N2... 50.12
 C2H6... 02... 0 4.0

OTHER ANALYTICAL DATA... PH = 7.9.
 QUALIFICATION FIELD... U2 = 02 + AR.

REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-247
 REFERENCE... GUNTER AND MUSGRAVE, 1966

RECORD 00229

~~GEOTERM SAMPLE FILE~~
 NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FLUOU GEYSER
 LOCALITY... TOWNSHIP= RANGE
 COUNTY... UNITED STATES
 STATE... WYOMING
 MAP REFERENCE... MADISON JUNCTION 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 26
 TEMPERATURE (C)... 94°

OTHER SAMPLE INFORMATION... TEMPERATURE 91.5-93.5 DEGREES C REPORTED BY ALLEN AND DAY, 1935.
 WATER ANALYSIS
 DATE/ANALYST... 1936/06/00 ALLEN AND DAY
 ANALYSIS IN ppm
 ISOTOPES_00001

AG..... CO3.... 128.
HE(TOT)..... NH....
CA..... HC03.... 199.

CL.... 223.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.O. AND MUSGRAVE, B.C.
ANALYSIS IN MOLE %

CH4.... 2.7

C2H6.....

CO2.... 18.

H2.... 0.4

OTHER ANALYTICAL DATA... PH = 8.8.

QUALIFICATION FIELD..... O2 = 02 * AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPLIER CROSS INDEX... NEH-227

REFERENCE.....

GUNTER AND MUSGRAVE, 1966

RECORD 00230

GÉOTHERM SAMPLE-EILÉ
NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FLOOD GEYSER

LOCATION..... TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE.....

SAMPLE DESCRIPTION-AND CONDITIONS

MAP JUNCTION 1:62500

DATE/COLLECTOR..... 1930/09/00

TEMPERATURE (C)..... R 92.5

WATER ANALYSIS

ANALYSIS IN ppm

AG..... CO3.... 128.

HE(TOT)..... NH....

CA..... HC03.... 199.

CL.... 223.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE.....

ALLEN AND DAY, 1935

RECORD 00231

GÉOTHERM SAMPLE-EILÉ
NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - INDIGO SPRING

LOCATION..... TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE.....

SAMPLE DESCRIPTION-AND CONDITIONS

MAP JUNCTION 1:62500

OTHER LOCALITY INFORMATION: EAST OF EXCELSIOR GEYSER.

DATE/COLLECTOR..... 1930/09/00

OTHER SAMPLE INFORMATION... POOL 30 X 45 FT.

WATER ANALYSIS

RECORD 00234

GEOTHERM FILE ID# 0020341

COORDINATES
LAT/LONG... 44-31. N 110-50. W

GEOETHERM SAMPLE-EILÉ

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - INDIGO SPRING

LOCATION..... TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE.....

SAMPLE DESCRIPTION-AND CONDITIONS

MAP JUNCTION 1:62500

OTHER LOCALITY INFORMATION: EAST OF EXCELSIOR GEYSER.

DATE/COLLECTOR..... 1930/09/00

OTHER SAMPLE INFORMATION... POOL 30 X 45 FT.

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF) ... 6.6
 ANALYSIS IN PPM
 AG..... CO3..... 38.
 AL..... CR..... N
 H..... F..... NA...
 BE..... FE(TOT) 1. N 400.
 CA..... HC03.... 469. S102.
 CL..... 264. S04.. 272.
 CO..... K..... 13. 16.
 QUALIFICATION FIELD? ... S CALCULATED FROM S202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY ... LAWSON, WILLIAM A.
 COMPILER AFFILIATION ... U.S. GEOLOGICAL SURVEY
 REFERENCE ALLEN AND DAY, 1935

RECORD 00232

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE ... MIDWAY GEYSER BASIN - PRISMATIC LAKE
 LOCATION
 COUNTY TOWNSHIP-BRANGE
 STATE UNITED STATES
 CHINTY WYOMING
 MAP REFERENCE ... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: SOUTHWEST OF EXCELSIOR GEYSER CRATER.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR ... 1930/09/00
 TEMPERATURE (C) 63.3
 WATER ANALYSIS
 ANALYSIS IN PPM

AG..... CO3..... 34.
 HE..... FE(TOT) 1. NB...
 CA..... HC03.... 545. S04..
 CL..... 287. 16.

REFERENCE AND IDENTIFICATION
 COMPILED BY ... LAWSON, WILLIAM A.
 COMPILER AFFILIATION ... U.S. GEOLOGICAL SURVEY
 REFERENCE ALLEN AND DAY, 1935

RECORD 00233

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE ... MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNAMED SPRING
 LOCATION
 COUNTY TOWNSHIP-BRANGE
 STATE UNITED STATES
 CHINTY WYOMING
 MAP REFERENCE ... MAULSON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: MAIN FEATURE.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR ... 1965/09/00
 SAMPLE NUMBER ... 27
 TEMPERATURE (C) 94.
 GAS ANALYSIS
 DATE/ANALYST ... 1965/06/00 GUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN HOLE #

ISOTOPE_102001

GEOTHERM FILE ID: 0020345
 LAT/LONG... 44-31-20 N 110-50-13 W

ISOTOPE_102001

ISOTOPE_102001

CHI..	2.3		
C2H6..		N2...•	28.1
C2H4..	6.6	02...•	2.3
H2...•	0.4		
OTHER ANALYTICAL DATA... PH = 9.34			
QUALIFICATION FIELD PH = 9.34 REFERENCE AND IDENTIFICATION 02 = 02 + AK.			
COMPILED BY .....	.....	LAWSON, WILLIAM A.	
COMPILER AFFILIATION ...	.....	U.S. GEOLOGICAL SURVEY	
CAMP TEE CROSS INDEX .....	.....	NEW-229	
REFERENCE .....	.....	GUNTER AND MUSGRAVE, 1966	

SAMPLE NUMBER..... 201
 TEMPERATURE (C)..... 44.
 DISCHARGE..... R 4H. L/MIN
 OJIFK. SAMPLE INFORMATION.. VERY DEEP SPRING WITH LARGE SHALLOW RUNOFF POOL ABOUT IN CENTER OF AREA.
 GAY ANALYST..... DATE/ANALYST..... 1971/06/00 GUNTER, B.D.
 ANALYSIS..... ISOTOPES (0000)

ପ୍ରାଚୀନ କବିତା

CH ₄ •	T	N2•••	70•2
C ₂ H ₆ •		02•••	29.
CO ₂ •	0.1 ₂		
H ₂ •	N		
UJHEE ANALYTICAL DATA • AR/N2 = 1.7•			
REFERENCE AND IDENTIFICATION			
COMPILED BY •••••	LAWSON, WILLIAM A.		
COMPILER AFFILIATION •••••	I.S. GEOLOGICAL SURVEY		
COMPILER CROSS INDEX •••••	NEH-229		
REFERENCE •••••	GUNTER, 1973		

RECORD 00235
GEOTHERM FILE ID: 0020350
NAME OF SAMPLE FILE: GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNAMED SPRINGS
LOCATION: COUNTY: LOMA
COUNTRY: UNITED STATES
COUNTRY: WYOMING
MAP REFERENCE: TETON
MAP REFERENCE: MAULSON JUNCTION 1:62500
OTHER LOCALITY INFORMATION: SUM SOUTH OF NO. 2011 SOUTH MEMBER OF TWO CONNECTED SPRINGS.
SAMPLE DESCRIPTION: LAND CONDITIONS
DATE/COLLECTOR: 1971/J6/00
SAMON & HUMMER
202

TEMPERATURE (C)..... 9.0
 DISCHARGE..... H 67. L/MIN
 OTHER SAMPLE INFORMATION.. LARGE CLEAR SPRING WITH CAVED IN EDGE.
 GAS ANALYSIS
 DATE/ANALYST.... 1971/06/00 GUNTER, B.D.
 ANALYSIS IN MOLE %
 AR... 1.5
 CH4... T
 C2H6...
 CO2... 1.
 H2... N
 OTHER ANALYTICAL DATA AR/N2 = 1.76.
 DIFFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-231
 REFERENCE..... GUNTER, 1973

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNAMED SPRING
 LOCATION
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MAULSON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: ONE METER SOUTHEAST OF NO.201.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR.... 1971/06/00
 SAMPLE NUMBER.... 202
 TEMPERATURE (C)..... 9.2.
 DISCHARGE..... H 0.1 L/MIN
 OTHER SAMPLE INFORMATION: SMALL TURBID POOL WITH NO RUNOFF.
 GAS ANALYSIS
 DATE/ANALYST.... 1971/06/00 GUNTER, B.D.
 ANALYSIS IN MOLE %
 AR... 0.48
 CH4... 0.42
 C2H6...
 CO2... 74.
 H2... N
 OTHER ANALYTICAL DATA AR/N2 = 2.15.
 DIFFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-230
 REFERENCE..... GUNTER, 1973

RECORD 00236
 GEOTHERM FILE ID# 0020349
 LAT/LONG... 44-30.50 N 110-48.42 W
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNAMED SPRING
 LOCATION
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MAULSON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: ONE METER SOUTHEAST OF NO.201.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR.... 1971/06/00
 SAMPLE NUMBER.... 202
 TEMPERATURE (C)..... 9.2.
 DISCHARGE..... H 0.1 L/MIN
 OTHER SAMPLE INFORMATION: SMALL TURBID POOL WITH NO RUNOFF.
 GAS ANALYSIS
 DATE/ANALYST.... 1971/06/00 GUNTER, B.D.
 ANALYSIS IN MOLE %
 AR... 0.48
 CH4... 0.42
 C2H6...
 CO2... 74.
 H2... N
 OTHER ANALYTICAL DATA AR/N2 = 2.15.
 DIFFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-230
 REFERENCE..... GUNTER, 1973

RECORD 00237
 GEOTHERM FILE ID# 0020346
 LAT/LONG... 44-30.57 N 110-49.50 W
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - UNNAMED CONE
 LOCATION
 COUNTRY... UNITED STATES
 STATE... WYOMING

COUNTY..... TETON
 MAP REFERENCE..... MAUDSON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: RIGHT BANK OF FIREHOLE RIVER, 150 YDS. BELOW UPPER BRIDGE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 92.6
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG..... CO3.... 15.
 HE..... FE(TOT).
 CA..... HC03.... 34.0.
 CL..... 25.3.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCED..... ALLEN AND DAY, 1935

RECORD 00238
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MAUDSON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: EAST BANK OF FIREHOLE RIVER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 19
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4... n.2
 C2H6... N2... u 8.95
 CO2... 02... 0.3
 H2... n
 QUALIFICATION FIELD?..... N2 = N2 + AK.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-225
 REFERENCED..... ALLEN AND DAY, 1935.

ISOTOPE_100Z00

RECORD 00239
 GEOTHERM FILE ID: 0020339
 LAT/LONG... 44-31. N 110-50. W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORTH BUFFALO FURK SPRINGS - GROUP 1
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES 45N 111W 32 NE OF SE
 STATE..... WYOMING
 COUNTY..... TETON
 GEOLOGIC PROVINCE...
 MAP REFERENCE.....
 OTHER LOCALITY INFORMATION: GROUP IN EAST SIDE OF BUFFALO FORK AT JUNCTION WITH SODA FORK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1956/00/00

RECORD 00239
 GEOTHERM FILE ID: 0075075
 LAT/LONG... 43-54.40 N 110-11.70 W
 UTM ZONE... +12
 NOR/HNG... 4861605.
 SODA FORK
 RECORD 00239
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORTH BUFFALO FURK SPRINGS - GROUP 1
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES 45N 111W 32 NE OF SE
 STATE..... WYOMING
 COUNTY..... TETON
 GEOLOGIC PROVINCE...
 MAP REFERENCE.....
 OTHER LOCALITY INFORMATION: GROUP IN EAST SIDE OF BUFFALO FORK AT JUNCTION WITH SODA FORK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1956/00/00

TEMPERATURE (C)..... 35.5
 DISCHARGE..... 53. L/MIN
 OTHER SAMPLE INFORMATION: TWO GROUPS OF SPRINGS. THE GROUP FOR THIS ANALYSIS IS DESCRIBED AS VIOLENTLY BUBBLING.
 SODAISH TASTE AND A SULFUR SMELL.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... ARCKENRIDGE AND HINCKLEY, 1978

RECORD 00240

GÉOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORTH BUFFALO FORK SPRINGS - GROUP 2
 LOCATION TOWNSHIP-RANGE
 COUNTY..... UNITED STATES 45N 111W 32 NE OF SE
 STATE..... WYOMING
 CITY..... TETON
 MAP REFERENCE..... 41
 MAP REFERENCE PROVINCE.....
 OTHER LOCALITY INFORMATION: THIS GROUP ACROSS BUFFALO FORK RIVER FROM OTHER GROUP.
 SAMPLE DESCRIPTION AND CONDITION
 TEMPERATURE (C)..... 45.0
 DISCHARGE..... 757. L/MIN
 OWNER SAMPLE INFORMATION: TWO GROUPS OF SPRINGS. THIS GROUP IN AN AREA OF MANY GAS SEEPS.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... ARCKENRIDGE AND HINCKLEY, 1978

RECORD 00241

GÉOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED GROUP - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTY..... UNITED STATES
 STATE..... WYOMING
 CITY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: 300M NW OF CASTLE, 70M FROM HIGHWAY, 15M SW OF LARGE BROWN POOL, BESIDE A SPURTING
 SPRING; UPPER GEYSER BASIN.
 SAMPLE DESCRIPTION AND CONDITION
 DATE COLLECTED..... 1965/06/00
 SAMPLE NUMBER..... 108
 TEMPERATURE (C)..... 71.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, H.D. AND MUSGRAVE, H.C.
 ANALYSIS IN MOLE %
 CH4... 1.5
 C2H6...
 CO2... 22.
 H2... 11

ISOCOPES_00001

DISCHARGE..... 59.97
 OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.
 QUALIFICATION FIELD..... 02 = 02 * AH
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPTILER CROSS INDEX... NEM-210
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00242

GEOETHERM SAMPLE-LIÉ
NAME OF SAMPLE SOURCE... PIPELINE GREEK SPRING
LOCATION TOWNSHIP-RANGE
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: ABOVE UPPER GEYSER BASIN.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1930/00/00
SAMPLE NUMBER..... 9
GAS ANALYSIS

ANALYSIS IN VOLUME %	
CH ₄ ...	1.1
C ₂ H ₆ ...	
CO ₂ ...	9.0
H ₂ ...	0.35
QUALIFICATION FIELD:... N2 = N2 + AH.	
REFERENCE AND IDENTIFICATION	
COMPILED BY... LAWSON, WILLIAM A.	
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY	
COMPILER CROSS INDEX... NEM-171	
REFERENCE..... ALLEN AND DAY, 1935.	

COORDINATES
LAT/LONG... 44-27.68 N 110-50.00 W

RECORD 00243

GEOETHERM SAMPLE-LIÉ
NAME OF SAMPLE SOURCE... POTS HOT SPRING BASIN - UNNAMED GEYSER
LOCATION TOWNSHIP-RANGE
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... WEST THUMB 1:62500
OTHER LOCALITY INFORMATION: NW OF WEST THUMB, NEXT TO HIGHWAY.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1965/00/00 GUNTER AND MUSGRAVE
SAMPLE NUMBER... 96
TEMPERATURE (C)... 95.
GAS ANALYSIS

DATE/ANALYST... 1965/00/00 GUNTER AND MUSGRAVE	
ANALYSIS IN MOLE %	
CH ₄ ...	1
C ₂ H ₆ ...	
CO ₂ ...	51.
H ₂ ...	14
OTHER ANALYTICAL DATA... PH = 8.7.	
QUALIFICATION FIELD:... O ₂ = O ₂ + AR.	
REFERENCE AND IDENTIFICATION	
COMPILED BY... LAWSON, WILLIAM A.	
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY	
COMPILER CROSS INDEX... NEM-335	

COORDINATES
LAT/LONG... 44-26.4 N 110-34.5 W

RECORD 00246

GEOETHERM FILE ID: 0020486

ISOTOPES_100/01

REFERENCE..... GUNTER AND MUSGRAVE, 1966

PAGE 0130

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... PUTS HOT SPRING BASIN - UNNAMED SPRING
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... WEST THUMB 1:62500
OTHER LOCALITY INFORMATION: 15M NORTH OF NO. 96.
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1965/09/00 GUNTER AND MUSGRAVE
SAMPLE NUMBER..... 97
TEMPERATURE (C)..... 94.

GAS ANALYSIS
DALE ZANALYST..... 1965/09/00 GUNTER AND MUSGRAVE
ANALYSIS IN MOLE %
CH₄..... 1.9
C₂H₆.....
CO₂..... 12.
H₂..... N

OTHER ANALYTICAL DATA... PH = 8.4.
QUALIFICATION FIELD..... O₂ = O₂ + AR.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX..... NEH-336
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00245

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... SHUSHUNE GEYSER BASIN - BLUE GLASS SPRING
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... OLD FAIRFIELD 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1960/09/00
SAMPLE NUMBER..... XI

GAS ANALYSIS IN VOLUME %
CH₄..... 14
C₂H₆.....
CO₂..... 52.

H₂S..... N
N₂..... 44.55
O₂..... 3.7

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX..... NEH-325
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00244

GEOTHERM FILE ID: 0020487
NAME OF SAMPLE SOURCE... PUTS HOT SPRING BASIN - UNNAMED SPRING
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... WEST THUMB 1:62500
OTHER LOCALITY INFORMATION: 15M NORTH OF NO. 96.
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1965/09/00 GUNTER AND MUSGRAVE
SAMPLE NUMBER..... 97
TEMPERATURE (C)..... 94.

ISOTOPES_100/01

GEOTHERM FILE ID: 0020474
NAME OF SAMPLE SOURCE... PUTS HOT SPRING BASIN - UNNAMED SPRING
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... OLD FAIRFIELD 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1960/09/00
SAMPLE NUMBER..... XI

ISOTOPES_100/01

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... SHUSHONE GEYSER BASIN - MINUTE MAN GEYSER
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: WEST END OF SHOSHONE LAKE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/00/00
WAFFER ANALYSIS
GAS ANALYSIS IN ppm
AG..... CO3..... 69.
AL..... CR.....
H..... F.....
HE..... FE(TOT). 1
CA..... HC03..... 331.
CL..... 151.
CO..... K..... 17.
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... SHUSHONE GEYSER BASIN - TAURUS GEYSER
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: 630 FT NORTHWEST OF UNION GEYSER.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR.....
WAFFER ANALYSIS
DATE/ANALYST.....
GAS ANALYSIS IN ppm
AG..... CO3.....
AL..... CR.....
H..... F.....
HE..... FE(TOT). 1
PI..... GA.....
BR..... HC03..... 445.
CA..... CL..... 194.
CO..... K..... 24.

GEOTHERM FILE ID: 0020475
COORDINATES
LAT/LONG... 44-21.18 N 110-47.54 W

GEOTHERM FILE ID: 0020476
COORDINATES
LAT/LONG... 44-21.12 N 110-48.03 W

GEOTHERM FILE ID: 0020477
COORDINATES
LAT/LONG... 44-21.12 N 110-48.03 W

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... SHUSHONE GEYSER BASIN - GOUCH AND WHITFIELD
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: UNION GEYSER.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR.....
WAFFER ANALYSIS
DATE/ANALYST.....
GAS ANALYSIS
DATE/ANALYST.....
ANALYSIS IN VOLUME %
CH4... 0.3
C2H6...
N2...
CO2...
H2S...
H2...
CH4... 0.36
CO...
H2S...
N2...
CO2...
H2...
CH4... 0.96
CO...
H2S...
N2...
CO2...
H2...
CH4... 293.
CO...
H2S...
N2...
CO2...
H2...
CH4... 46.
CO...
H2S...
N2...
CO2...
H2...
CH4... 1.
CO...
H2S...
N2...
CO2...
H2...
CH4... 24.
CO...
H2S...
N2...
CO2...
H2...
CH4... 100/001
ISOTOPEES_100/001
ISOTOPEES_100/001
ISOTOPEES_100/001
ISOTOPEES_100/001

C02... 70. 02... 0.23
H2... 2.2
OTHER ANALYTICAL DATA... H2O ANAL: AS203 = 0.7 PPM.
QUALIFICATION FIELD... HCO3 IS A CALCULATED VALUE. B CALCULATED FROM B203.
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPTILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPTILER CROSS INDEX... NEH-J26
REFERENCE... ALLEN AND DAY, 1935

RECORD 00248

~~GEOOTHERM SAMPLE FILE~~
NAME OF SAMPLE SOURCE... SHOSHONE GEYSER BASIN - UNION GEYSER
LOCATION... TOWNSHIP-RANGE
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 162500
OTHER LOCALITY INFORMATION: WEST SIDE OF SHOSHONE LAKE! APPROX. 2700 FT WEST OF LAKE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION... 1930/00/00
WATER ANALYSIS
CHARGE IMBALANCE (% DIFF)... 12.1
ANALYSIS IN PPM
AG... C03.... 77. Li... S... N
Al... N F... NA... 364. S102.
Be... FE(10) 1 NB... 504. 45.
Ca... 21. HCO3... 316.
Cl... 235.
Cu... K... 13.
OTHER ANALYTICAL DATA... S203 = 1.5 PPM.
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPTILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... ALLEN AND DAY, 1935

RECORD 00249

~~GEOOTHERM SAMPLE FILE~~
NAME OF SAMPLE SOURCE... SHOSHONE GEYSER BASIN - UNNAMED SPRING
LOCATION... TOWNSHIP-RANGE
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 162500
OTHER LOCALITY INFORMATION: EAST SIDE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION... 1930/00/00
SAMPLE NUMBER... 26
GAS ANALYSIS
ANALYSIS IN VOLUME %
CH4... 0.6 H2S... N 9.7
C2H6... CO2... 0.2 N2... 0.2

ISOTOPES_10249

H₂... 0.05
 QUALIFICATION FIELD... N2 = N2 + AR.
 DIFFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-J27
 DIFFERENCE... ALLEN AND DAY, 1935

RECORD 00250

GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE... TERRACE SPRING
 LOCATION TOWNSHIP=RANGE
 COUNTY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 MAP REFERENCE MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: NEXT TO ROAD, NORTH SIDE, APPROX. 3345 FT. NORTHEAST OF MADISON JUNCTION.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 119
 TEMPERATURE (C)... 60.

GAS ANALYSIS
 DATE/ANALYST... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH₄... L 0.4
 C₂H₆... N2... 0.29
 CO₂... 02... 0 0.29
 H₂... L 0.4

OTHER ANALYTICAL DATA... PH = 6.5
 QUALIFICATION FIELD... O₂ = 02 + AR.
 DIFFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-J27
 DIFFERENCE... GUNTER AND MUSGRAVE, 1966

RECORD 00251

GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE... TERRACE SPRING
 LOCATION TOWNSHIP=RANGE
 COUNTY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 MAP REFERENCE MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: NEXT TO ROAD, NORTH SIDE, APPROX. 3345 FT. NORTHEAST OF MADISON JUNCTION.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 8
 TEMPERATURE (C)... 61.8
 WATER ANALYSIS
 DATE/ANALYST... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 CHANGE IN BALANCE (% DIFF)... 1.4
 ANALYSIS IN PH
 AG... CO₂... N
 Li... S... N
 Li... N
 Li... N

ISOLATES...100000

AL... N CR.....
 R..... F.....
 HE..... FE(TOT) N
 CA.... 21. HCO3... 774.
 CL.... 66. K.....
 CO.....
 GAS ANALYSIS
 DATE/ANALYSIS 1970/09/00
 ANALYSIS IN VOLUME %
 CH4... N H2S... N
 C2H6...
 CH2... 160.
 H2... N N2... 0.3
 O2... 0.2

QUALIFICATION FIELD: N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX NEH-276
 REFERENCE..... ALLEN AND DAY, 1935

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE TETON VALLEY WARM SPRINGS
 LOCATION TOWNSHIP RANGE
 COUNTRY UNITED STATES 42N 115W 11 NE OF NE
 STATE WYOMING
 COUNTY TETON
 GEOLOGIC PROVINCE 41
 MAP REFERENCE BLUE MINER LAKE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR 1976/09/23
 TEMPERATURE (C) 18.0
 DISCHARGE 32554. L/MIN
 OTHER SAMPLE INFORMATION CONSISTS OF MANY SPRINGS AND SEEPs IN AN AREA 150 FT BY 1200 FT.
 WATER ANALYSIS
 P4...
 SPECIFIC CONDUCTANCE 403.
 TOTAL DISSOLVED SOLIDS 248.
 CHARGE INHALANCE (% DIFF) ... S.J.
 ANALYSIS IN PPM
 AG... CO3... N Li... 5.000 L 0.001
 AL... CH... MG... 16.
 HE... 0.0 v/v F... 0.6 NA... 7.0 SI02... 11.
 HE...
 CA... 49. HCO3... 180. NB... 504... 62.
 CL... 2.0
 CO... K... 1.6

REFERENCE AND IDENTIFICATION
 COMPILED BY H. P. HEASLER, H. P.
 COMPILER AFFILIATION UNIVERSITY OF WYOMING
 REFERENCE HECKENRIDGE AND HINCKLEY, 1978

GEOTHERM SAMPLE FILE
 ISOTOPES 10/20/01

RECORD 00252
 GEOTHERM FILE 10/ 0075077

COORDINATES
 LAT/LONG... 43-37.43 N 110-36.37 W
 UTM ZONE... *12
 NORTHING... 4829954.
 531775.

RECORD 00253
 GEOTHERM FILE 10/ 0020340

NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION COUNTY... TOWNSHIP-RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: 30M NORTH OF FLOOD GEYSER. IN MIDWAY GEYSER BASIN.
 SAMPLE DESCRIPTION... AND CONDENSATION
 DATE COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 25
 TEMPERATURE (C) ... 94.
 GAS ANALYSIS
 DATE/ANALYST... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH4... 0.41 H2S... N
 C2H6... 02... 14.5
 CO2... 82... Q 3.5
 H2... L 0.4
 OTHER ANALYTICAL DATA... PH = 8.7
 QUALIFICATION FIELD... 02 = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-226
 REFERENCE... GUNTER AND MUSGRAVE, 1966

RECORD 00254
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION COUNTY... TOWNSHIP-RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: 20M EAST OF SERPENTS TONGUE.
 SAMPLE DESCRIPTION... AND CONDENSATION
 DATE COLLECTOR... 1965/06/13
 SAMPLE NUMBER... 11
 TEMPERATURE (C) ... 68.
 GAS ANALYSIS
 DATE/ANALYST... 1965/06/14 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH4... 0.36 N2... 5.99
 C2H6... 02... Q 1.2
 CO2... 82...
 H2... N
 OTHER ANALYTICAL DATA... PH=3.2
 QUALIFICATION FIELD... 02=02 + AR
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-109
 REFERENCE... GUNTER AND MUSGRAVE, 1966

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSERS BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-BRANGE
 UNITED STATES
 WYOMING
 TETON
 STATE
 COUNTY
 MAP REFERENCE... OLD FAITHFUL 1:62500
 DINFO LOCALITY INFORMATION: SUM DOWNSTREAM FROM NO. 21, EAST BANK FIREHOLE RIVER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 22
 OTHER SAMPLE INFORMATION: POOL IS SLIGHTLY TURBID.
GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH₄... 0.67 N2... 3.88
 C₂H₆... 0.20 O₂... 0.18
 CO₂... 95.42
 OTHER ANALYTICAL DATA: PH = 8.
 QUALIFICATION FIELD: O₂ = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 CHARTLER CROSS INDEX... NEH-197
 REFERENCE..... GUNTER AND MUSGRAVE, 1966
RECORD 00255
 GEOTHERM FILE ID: 0020304
COORDINATES
 LAT/LONG... 44-27.53 N 110-49.45 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - ARTEMESIA GEYSER
 LOCATION TOWNSHIP-BRANGE
 UNITED STATES
 WYOMING
 TETON
 STATE
 COUNTY
 MAP REFERENCE... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 43
 TEMPERATURE (C)..... 87.
GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, B.U. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH₄... 8.0 N2... 80.11
 C₂H₆... 0.2 O₂... 6.6
 CO₂... 4.1
 H₂... 1
 OTHER ANALYTICAL DATA: PH(S) WITH PH PAPER) = 8.
 QUALIFICATION FIELD: O₂=O₂ + AR
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 CHARTLER CROSS INDEX... NEH-203
RECORD 00256
 GEOTHERM FILE ID: 0020257
 GEOTHERM
 LAT/LONG... 44-27.43 N 110-50.00 W

REFERENCE..... GUNTER AND MUSGRAVE, 1966

PAGE 0137

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - ARTEMISIA GEYSER
LOCATION

COUNTRY... UNITED STATES

STATE... WYOMING,

COUNTY... TETON

MAP REFERENCE... OLD FAITHFUL 1:62500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/08/00

SAMPLE NUMBER..... 16

OTHER SAMPLE INFORMATION.. TEMPERATURE VARIES FROM 83.7 TO 91.5.

WAITER ANALYSIS

ANALYSIS IN PPM

Al	0.00
H	0.00
He	0.00
Ca	1
Cl	289.
CO ₂	0.00
CH ₄	11.
C ₂ H ₆	0.00
CO ₂	0.9
H ₂	N

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄	11.
C ₂ H ₆	0.00
CO ₂	0.9
H ₂	N

OTHER ANALYTICAL DATA... H203=10. PPM
QUALIFICATION FIELD... N2=N2 + AH

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-178

REFERENCE..... ALLEN AND DAY. 1935.

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - ARTEMISIA GEYSER
LOCATION

COUNTRY... UNITED STATES

STATE... WYOMING,

COUNTY... TETON

MAP REFERENCE... OLD FAITHFUL 1:62500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1900/08/00

SAMPLE NUMBER..... 1

OTHER SAMPLE INFORMATION.. TEMPERATURE 82.5 DEGRESS C. 1927/08/04.

GAS ANALYSIS

DATE/ANALYST..... PHILLIPS, F.C.

ANALYSIS IN VOLUME %

CH ₄	N
C ₂ H ₆	0.00
CO ₂	1.0

ISOTOPEES_1900/08/00

RECORD 00257

GEOTHERM FILE ID# 0020256

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - ARTEMISIA GEYSER
LOCATION

COUNTRY... UNITED STATES

STATE... WYOMING,

COUNTY... TETON

MAP REFERENCE... OLD FAITHFUL 1:62500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1900/08/00

SAMPLE NUMBER..... 1

OTHER SAMPLE INFORMATION.. TEMPERATURE 82.5 DEGRESS C. 1927/08/04.

GAS ANALYSIS

DATE/ANALYST..... PHILLIPS, F.C.

ANALYSIS IN VOLUME %

CH ₄	N
C ₂ H ₆	0.00
CO ₂	1.0

ISOTOPEES_1900/08/00

RECORD 00258

GEOTHERM FILE ID# 0020255

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - ARTEMISIA GEYSER
LOCATION

COUNTRY... UNITED STATES

STATE... WYOMING,

COUNTY... TETON

MAP REFERENCE... OLD FAITHFUL 1:62500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1900/08/00

SAMPLE NUMBER..... 1

OTHER SAMPLE INFORMATION.. TEMPERATURE 82.5 DEGRESS C. 1927/08/04.

GAS ANALYSIS

DATE/ANALYST..... PHILLIPS, F.C.

ANALYSIS IN VOLUME %

CH ₄	N
C ₂ H ₆	0.00
CO ₂	1.0

ISOTOPEES_1900/08/00

^{H2O}_{n+1}
RÉFÉRENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPTER CROSS INDEX... NEH-168
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00259

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - BEEHIVE GEYSER
LOCATION TOWNSHIP-BRANGE

COUNTRY UNITED STATES
STATE WYOMING
COUNTY TETON
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/00/00
TEMPERATURE (C)..... 92.5
WATER ANALYSIS
ANALYSIS IN PPM
AG..... CO3..... 29. L1.... S.... Q 1.
AL..... N F..... NA.... 322. SI02.... 294.
B..... Q 2.4 FE(TOT).... N NB.... 504.... 33.
HE..... HC03.... 102.
CA..... T 378.
CL.....
CO..... K..... 18.

QUALIFICATION FIELD..... B CALCULATED FROM S2021 S CALCULATED FROM S202.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00260

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - BENCH SPRING
LOCATION TOWNSHIP-BRANGE

COUNTRY UNITED STATES
STATE WYOMING
COUNTY TETON
MAP REFERENCE..... OLD FAITHFUL 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/00/00
TEMPERATURE (C)..... 83.7
WATER ANALYSIS
ANALYSIS IN PPM
AG..... CO3..... N MG.... T 80. SI02.... 288.
AL..... N CR..... NA.... NH4.... 504.... 205.
B..... Q 0.81 F..... FE(TOT).... N GA.... N
HE..... HC03.... 1. CL.....
CA..... 2. CO..... K..... 17.

RECORD 00260

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - BENCH SPRING
LOCATION TOWNSHIP-BRANGE

COUNTRY UNITED STATES
STATE WYOMING
COUNTY TETON
MAP REFERENCE..... OLD FAITHFUL 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1930/00/00
TEMPERATURE (C)..... 83.7
WATER ANALYSIS
ANALYSIS IN PPM
AG..... CO3..... N MG.... T 80. SI02.... 288.
AL..... N CR..... NA.... NH4.... 504.... 205.
B..... Q 0.81 F..... FE(TOT).... N GA.... N
HE..... HC03.... 1. CL.....
CA..... 2. CO..... K..... 17.

QUALIFICATION FIELD..... B CALCULATED FROM S202.

RÉFÉRENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPTILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

GÉOTHERM-SAMPLÉ-ETIÉ
 NAME OF SAMPLE SOURCE... UPPER GEYSER HASIN - BLACK SAND POOL
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/09/00
 TEMPERATURE (C)..... 92.7
 WATER ANALYSIS
 ANALYSIS IN ppm
 AG..... CO3..... 150.
 HE..... FE (TOT).
 CA..... HCO3..... 306.
 CL..... 324.

RÉFÉRENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPTILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

GÉOTHERM-SAMPLÉ-ETIÉ
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - BOTTOMLESS PIT
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: CHAIN LAKE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1900/09/00
 GAS ANALYSIS
 DATE/ANALYST..... PHILLIPS, F.C.
 ANALYSIS IN VOLUME %
 CH4... N
 C2H6...
 C2D6...
 C2F6... 19.
 HP... 0.71

RÉFÉRENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPTILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPTILER CROSS INDEX... NM-170
 REFERENCE..... ALLEN AND DAY, 1935

GÉOTHERM-SAMPLÉ-ETIÉ
 NAME OF SAMPLE SOURCE... TOWNSHIP-RANGE
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/09/00
 TEMPERATURE (C)..... 92.7

ISOTOPE_102001

S04..

RÉFÉRENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPTILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

GÉOTHERM-SAMPLÉ-ETIÉ
 NAME OF SAMPLE SOURCE... TOWNSHIP-RANGE
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/09/00
 GAS ANALYSIS
 DATE/ANALYST..... PHILLIPS, F.C.
 ANALYSIS IN VOLUME %
 CH4... N
 C2H6...
 C2D6...
 C2F6... 19.
 HP... 0.71

ISOTOPE_102001

H2S.. N
 N2... 69.24
 O2... 11.

GÉOTHERM-SAMPLÉ-ETIÉ
 NAME OF SAMPLE SOURCE... TOWNSHIP-RANGE
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/09/00
 GAS ANALYSIS
 DATE/ANALYST..... PHILLIPS, F.C.
 ANALYSIS IN VOLUME %
 CH4... N
 C2H6...
 C2D6...
 C2F6... 19.
 HP... 0.71

GÉOTHERM FILE ID: 0020293

RECORD 00261

GÉOTHERM FILE ID: 0020267

RECORD 00262

GÉOTHERM FILE ID: 0020267

RECORD 00262

GÉOTHERM-SAMPLÉ-ETIÉ
 NAME OF SAMPLE SOURCE... TOWNSHIP-RANGE
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/09/00
 GAS ANALYSIS
 DATE/ANALYST..... PHILLIPS, F.C.
 ANALYSIS IN VOLUME %
 CH4... N
 C2H6...
 C2D6...
 C2F6... 19.
 HP... 0.71

GÉOTHERM FILE ID: 0020338

RECORD 00263

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CALTHUS SPRING
 LOCATION... TOWNSHIP=RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR... 1930/09/00
 TEMPERATURE (C)... 94.5
 WATER ANALYSIS
 ANALYSIS IN ppm
 AG..... CO3..... 42.
 BE..... FE(TOT)..... NB....
 CA..... HC03..... 454.
 CL..... 289.

REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00264
 GEOTHERM SAMPLE-E16
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CASTLE GEYSER
 LOCATION... TOWNSHIP=RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR... 1930/09/00
 WATER ANALYSIS
 CHARGE IMBALANCE (% DIFF)... 5.2
 ANALYSIS IN ppm
 AG..... CO3..... 42.
 AL..... CR..... NB....
 H..... F..... N
 HE..... FE(TOT)..... NB....
 BI..... GA..... N
 CA..... HC03..... NH4....
 CL..... 329.
 CO..... K..... 24.
 QUALIFICATION FIELD... B CALCULATED FROM B2U2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00265
 GEOTHERM SAMPLE-E16
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CHINAMAN SPRING
 LOCATION... TOWNSHIP=RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500

RECORD 00266
 GEOTHERM FILE 101 0020286
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CALTHUS SPRING
 LOCATION... TOWNSHIP=RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... 44-27.5 N 110-50.6 W

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1936/06/00
TEMPERATURE (C)..... 93.5

WATER ANALYSIS
ANALYSIS IN PHM

DATE/ANALYST.....

GAS ANALYSIS
ANALYSIS IN VOLUME %CH4... 0.15
C2H6...
CO2... 92.

H2... 0.45

QUALIFICATION FIELD AND IDENTIFICATION
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-172
REFERENCE..... ALLEN AND DAY. 1935.

RECORD 00266

GEOTHERM FILE 101 00266

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CHINAMAN SPRING
LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 121

TEMPERATURE (C)..... 93.5

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, H.C.

ANALYSIS
CH4... 0.39
C2H6...
CO2... 93.

H2... 1

OTHER ANALYTICAL DATA... RH = 7.8.

QUALIFICATION FIELD AND IDENTIFICATION
REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-212

REFERENCE..... GUNTER AND MUSGRAVE. 1966

RECORD 00267

GEOTHERM FILE 101 00267

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CLIFF GEYSER

LOCATION

COUNTRY..... UNITED STATES

RECORD 00268

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CLIFF GEYSER

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING
 COUNTY..... TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/JU/00
 TEMP/FAHRENTE (C)..... 49.6
 WATER ANALYSIS
 ANALYSIS IN PHM
 AG..... CO3.... 10.
 BE..... FE(TOT).
 CA..... HC03.... 590.
 CL..... 300.

RÉFÉRENCE ANNUAL IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 DIFFERENCE..... ALLEN AND DAY. 1935

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, H.C.

ANALYSIS IN MOLE %
 CH4... 0.77
 C2H6...
 CO2... 91.
 H2... N

OTHFR ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.
 QUALIFICATION FIELD..... 02 = 02 + AK
 RÉFÉRENCE ANNUAL IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-209
 DIFFERENCE..... GUNTER AND MUSGRAVE. 1966

ISOTOPE..... (02/00)

GEOITHERM_SAMPLEFILE
 NAME_OF_SAMPLE_SOURCE... UPPER GEYSER BASIN - DAISY GEYSER
 LOCATION
 COUNTY..... TETON
 STATE..... UNITED STATES
 WYOMING

MAP REFERENCE..... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 107
 TEMPERATURE (C)..... 89.

GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, H.C.

ANALYSIS IN MOLE %
 N2... 7.06
 O2... 0 1.5

OTHFR ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.
 QUALIFICATION FIELD..... 02 = 02 + AK
 RÉFÉRENCE ANNUAL IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-209
 DIFFERENCE..... GUNTER AND MUSGRAVE. 1966

ISOTOPE..... (02/00)

RECORD 00268

GEOITHERM FILE ID: 0020277
 NAME_OF_SAMPLE_SOURCE... UPPER GEYSER BASIN - DAISY SPRING
 LOCATION
 COUNTY..... TETON
 STATE..... UNITED STATES
 WYOMING

MAP REFERENCE..... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/JU/00
 SAMPLE NUMBER..... 15

RECORD 00269

GEOITHERM FILE ID: 0020276
 NAME_OF_SAMPLE_SOURCE... UPPER GEYSER BASIN - DAISY SPRING
 LOCATION
 COUNTY..... TETON
 STATE..... UNITED STATES
 WYOMING

MAP REFERENCE..... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/JU/00
 SAMPLE NUMBER..... 15

TEMPERATURE (°C)..... AB.6
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG..... CO3..... 15.
 HF..... FE (TOT).
 CA..... HC03.... 619.
 N.B...
 S04...
 B.
 CL..... 311.
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH₄... 1.6
 C₂H₆...
 CO₂... 78.6
 N₂...
 H₂S... N
 N₂... Q 17.9
 O₂... 1.9
 H₂...
 QUALIFICATION FIELD, ???? N₂ = N₂ + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPTILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPTILER CROSS INDEX... NEH-177
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00270

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - EAR SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR..... 1930/00/00
 TEMPERATURE (°C)..... 93.
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG..... CO3..... N
 HF..... FE (TOT).
 CA..... HC03.... 104.
 N.B...
 S04...
 B.
 CL..... 379.

RÉFÉRENCE ET IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPTILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00271

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - ECONOMIC GEYSER
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR..... 1930/00/00
 TEMPERATURE (°C)..... 83.7
 WATER ANALYSIS
 ANALYSIS IN PPM

ISOTOPEES_10/2001

COORDINATES
 LAT/LONG... 44-27.4 N 110-50.0 W

GEOTHERM FILE ID: 0020251

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... ISOTOPES_10/2001

COORDINATES
 LAT/LONG... 44-27.4 N 110-50.0 W

GEOTHERM FILE ID: 0020251

COORDINATES
 LAT/LONG... 44-28.5 N 110-50.0 W

GEOTHERM FILE ID: 0020290

ISOTOPEES_10/2001

AG..... CO3..... N
HE..... FE (FRONT).....
CA..... HC03..... 362.
NB....

CL..... REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPLIER AFFILIATION..... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00272

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - ECONOMIC GEYSER
LOCATION..... TOWNSHIP=RANGE
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... OLD FAITHFUL 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR..... 1965/06/00
SAMPLE NUMBER..... 15
TEMPERATURE (C)..... 63.
GAS ANALYSIS
DATE / ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
ANALYSIS IN MOLE %
CH4... C2H6... CO2... 12.
N2... 1./
O2... 02... Q 23.

OTHER ANALYTICAL DATA... PH = 8.1
QUALIFICATION FIELD..... 02 + AK
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A.
COMPLIER AFFILIATION..... U.S. GEOLOGICAL SURVEY
COMPLIER CROSS INDEX..... NEH-191
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00273

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - EMERALD POOL
LOCATION..... TOWNSHIP=RANGE
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: 261 FT. WEST OF JUNCTION OF IRON SPRING AND WEST FURK CREEKS.
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR..... 1970/06/00
TEMPERATURE (C)..... 70.
WATER ANALYSIS
ANALYSIS IN PPM
Ag..... CO3..... 14d.
Al..... N..... NA..... S..... N
H..... Q 26..... NA..... 454.
HF..... HF (10T)..... N..... Nd..... 5102.
Na..... Nd..... Nd..... 504.
Si..... 21.

CA.... T HCO3.... 362.
 CL.... K..... 20.
 CO.... FIELD..... B CALCULATED FROM B202.
 QUALIFICATION FIELD AND IDENTIFICATION
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00274

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - GIANT GEYSER
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE.....
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 94.3
 WATER ANALYSIS
 ANALYSIS IN ppm

Al.... N 52. Li.... S.... 0 0.33
 Al.... N F.... NA.... 432. \$102.
 H.... N FE(TOT).... NB.... 304.
 CA.... T HCO3.... 487. 18.
 CL.... 297.

CO.... K..... 20.
 QUALIFICATION FIELD AND IDENTIFICATION
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00275

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - GIANTESS GEYSER
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE.....
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 94.1
 WATER ANALYSIS
 ANALYSIS IN ppm

Al.... N 51. Li.... S.... 1.
 Al.... N CR.... NB....
 H.... N F.... 20. HA.... 362. \$102.
 HE.... N FE(TOT).... NB.... 304.
 HI.... N GA.... NH.... 23.
 CA.... N HCO3.... 113. N
 CL.... 429.

RECORD 00276

GEOETHERM FILE I01 0020324
 LAT/LONG... 44-27.7 N 110-49.5 W

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - GIANTESS GEYSER
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE.....
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 94.1
 WATER ANALYSIS
 ANALYSIS IN ppm

Al.... N 51. Li.... S.... 1.
 Al.... N CR.... NB....
 H.... N F.... 20. HA.... 362. \$102.
 HE.... N FE(TOT).... NB.... 304.
 HI.... N GA.... NH.... 23.
 CA.... N HCO3.... 113. N
 CL.... 429.

RECORD 00277

GEOETHERM FILE I01 0020249
 LAT/LONG... 44-27.7 N 110-49.5 W

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - GIANTESS GEYSER
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE.....
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 94.1
 WATER ANALYSIS
 ANALYSIS IN ppm

Al.... N 51. Li.... S.... 1.
 Al.... N CR.... NB....
 H.... N F.... 20. HA.... 362. \$102.
 HE.... N FE(TOT).... NB.... 304.
 HI.... N GA.... NH.... 23.
 CA.... N HCO3.... 113. N
 CL.... 429.

CO••••• K••••• 20•
 QUALIFICATION FIELD••••• B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY••••• LAWSON, WILLIAM A.
 COMPILER AFFILIATION••• U.S. GEOLOGICAL SURVEY
 REFERENCE••••• ALLEN AND DAY, 1935

GÉOTHERM-SAMPLE-LIÈE
 NAME OF SAMPLE SOURCE••• UPPER GEYSER BASIN - GRAND GEYSER
 LOCATION TOWNSHIP=RANGE
 COUNTRY••••• UNITED STATES
 STATE••••• WYOMING
 COUNTY••••• TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR••••• 1936/00/00
 TEMPERATURE (C)••••• 79.
 WATER ANALYSIS IN PPM
 AG••••• CO3••••• 142.
 BE••••• FE(OH)••••• Nb••••• S04••••• 8.
 CA••••• HCO3••••• N
 CL••••• 3/6.

RÉFÉRENCE AND IDENTIFICATION
 COMPILED BY••••• LAWSON, WILLIAM A.
 COMPILER AFFILIATION••• U.S. GEOLOGICAL SURVEY
 REFERENCE••••• ALLEN AND DAY, 1935

GÉOTHERM-SAMPLE-LIÈE
 NAME OF SAMPLE SOURCE••• UPPER GEYSER BASIN - HILLSIDE NO. 1
 LOCATION TOWNSHIP=RANGE
 COUNTRY••••• UNITED STATES
 STATE••••• WYOMING
 COUNTY••••• TETON
 MAP REFERENCE••••• OLD FAITHFUL 1162500
 OBJECT LOCALITY INFORMATION: WEST SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR••••• 1936/00/00
 WATER ANALYSIS
 CHARGE IMBALANCE (% DIFF)••• 3.6

ANALYSIS IN PPM
 AG••••• CO3••••• Li••••• S••••• N
 Al••••• Cr••••• Na•••••
 H••••• O 1.0. F••••• 124. S102.
 Ht••••• Fe(OH)••• N NB••••• 170.
 HI••••• Ga••••• NH4••••• S04••••• 12.
 CA••••• HCO3••••• 249.
 Cl••••• Si•••••

CO••••• K••••• 10•
 QUALIFICATION FIELD••••• B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY••••• LAWSON, WILLIAM A.
 COMPILER AFFILIATION••• U.S. GEOLOGICAL SURVEY

GÉOTHERM FILE ID: 0020332
 RECORD 00276

GÉOTHERM FILE ID: 0020264
 RECORD 00277

GÉOTHERM FILE ID: 0020332
 RECORD 00277

GÉOTHERM FILE ID: 0020264
 RECORD 00277

REFERENCE..... ALLEN AND DAY, 1935

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - IRON SPRING
 LOCATION
 COUNTY... TETON
 STATE... UNITED STATES
 CITY... WYOMING
 MAP REFERENCE... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR..... 1930 / JU / 00
 SAMPLE NUMBER..... 17
 TEMPERATURE (C)..... 90.8
 WATER ANALYSIS
 ANALYSIS IN PPM

AG.....	CO ₃ N	Mg.....	T	
AL..... N	CR.....	NA.....	77.	SI02.
Ca.....	F..... 1.2	NH.....		\$04..
Fe.....	FE(TOT)..... 1	NH ₄	4..	231.
H.....	GA.....			
Cl.....	?			
CO ₂	HCUS..... N			
Cl.....	K.....			
CO ₂.....	..... 28.			

GAS ANALYSIS IN VOLUME %

CH ₄ ...	0.85	H ₂ S..... N	
C ₂ H ₆ ...		H ₂ 14.4	
CO ₂ ...	0.3.	O ₂ 1.6	
HP....	N		

OTHER ANALYTICAL DATA... H₂O:H₂S = 7. PPM, H = 0.18 PPM.
 QUALIFICATION FIELD... N₂ = H₂ + AR
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-179
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00279

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - JEWEL GEYSER
 LOCATION
 COUNTY... TETON
 STATE... UNITED STATES
 CITY... WYOMING
 MAP REFERENCE... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR..... 1930 / JU / 00
 TEMPERATURE (C)..... 93.7
 WATER ANALYSIS
 ANALYSIS IN PPM

Ag.....	CO ₃ 20.	Br.....	
Br.....	FE(TOT).....		
Ca.....	HCUS..... 541.		\$04..

ISOTOPES TOTAL

GEOTERM FILE ID: 0020280

GEOTERM FILE ID: 0020284

GEOTERM FILE ID: 0020280

CLIP... 304.

RÉFÉRENCE AGU_IDÉNIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY. 1935

RECORD 00280

GEOETHERM SAMPLE-LILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - JEWEL GEYSER
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING,
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 40
 TEMPERATURE (C).....
 GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, H.C.
 ANALYSIS IN PPM *

CH₄... 4.9
 C₂H₆...
 C₂H₄... 48.
 N₂...
 O₂...
 CO₂... 0.1

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.
 QUALIFICATION FIELD... O₂ = 0.2 + AK

RÉFÉRENCE AGU_IDÉNIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX... NETH-200
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00281

GEOETHERM SAMPLE-LILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - LIONESS GEYSER
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING,
 COUNTY..... TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR..... 1930/06/00
 TEMPERATURE (C)..... 94.
 WATER ANALYSIS

ANALYSIS IN PPM
 AG.... CO₂.... 97.
 HE.... FE(OH)₃.... NB....
 CA.... HCO₃.... N
 CL.... 419.

RÉFÉRENCE AGU_IDÉNIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY. 1935

GEOETHERM FILE 101 0020285

COORDINATES
 LAT/LONG... 44-28.5 N 110-50.0 W

GEOETHERM FILE 101 0020286

COORDINATES
 ISOTOPES_100202

GEOETHERM FILE 101 0020288

COORDINATES
 ISOTOPES_100202

GEOETHERM FILE 101 0020289

COORDINATES
 ISOTOPES_100202

RECORD 00282

GEOOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE ••• UPPER GEYSER BASIN - MORNING GLORY POOL
 LOCATION ••• TOWNSHIP-BRANGE
 COUNTRY ••• UNITED STATES
 STATE ••• WYOMING
 COUNTY ••• TETON
 MAP REFERENCE ••• OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR ••• 1930/09/00
 TEMPERATURE (C) ••• 77.

WATER ANALYSIS

	ANALYSIS IN PPM	CO3•••	13•	Li•••	S•••	N	ISOPHES (0/00)
AG							
AL	N						
H	4.0	F•••					
HF		FE(10)•	N		421•	\$102•	260•
CA	F			540•		\$04•	22.
CL	291.						
CO		K•••	20•				
C							QUALIFICATION FIELD ••• B CALCULATED FROM B202.
REFERENCE AND IDENTIFICATION							
COMPILED BY •••	LAWSON, WILLIAM A.						
COMPILER AFFILIATION •••	U.S. GEOLOGICAL SURVEY						
REFERENCE •••	ALLEN AND DAY, 1935						

RECORD 00283

GEOOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE ••• UPPER GEYSER BASIN - OBLONG GEYSER
 LOCATION ••• TOWNSHIP-BRANGE
 COUNTRY ••• UNITED STATES
 STATE ••• WYOMING
 COUNTY ••• TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR ••• 1930/09/00
 TEMPERATURE (C) ••• 93.6

WATER ANALYSIS

	ANALYSIS IN PPM	CO3•••	44•	NH•••	S04••	16.	ISOPHES (0/00)
AG							
HE		FE(10)•					
CA				377•			
CL	312.						
C							REFERENCE AND IDENTIFICATION
COMPILED BY •••	LAWSON, WILLIAM A.						
COMPILER AFFILIATION •••	U.S. GEOLOGICAL SURVEY						
REFERENCE •••	ALLEN AND DAY, 1935						

RECORD 00284

GEOOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE ••• UPPER GEYSER BASIN - OLD FAITHFUL GEYSER
 LOCATION ••• TOWNSHIP-BRANGE
 COUNTRY ••• UNITED STATES
 STATE ••• WYOMING

STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: NORTHEAST OF OLD FAITHFUL INN.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/08/00
 WATER ANALYSIS
 CHARGE IMBALANCE (% DIFF).... 0.1
 ANALYSIS IN PPM
 AG..... 003..... 100..... LI.... S..... 1
 AL..... 11.....
 H..... 3.6..... F..... 22..... NA.... 312..... \$102..... 357.....
 HF.....
 CA..... 4..... F(TOT).... 1..... NB.... 504..... 21.....
 CL..... 435.....
 CO.....
 QUADRATIC FIELD, B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COLLECTOR AFFILIATION..... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00285

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE.... UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: SOUTHERN FEATURE BY NO. 204.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/29
 SAMPLE NUMBER..... 205
 TEMPERATURE (C)..... 83.
 DISCHARGE..... 0.2 L/MIN
 OTHER SAMPLE INFORMATION: SUNKEN POOL WITH NO RUNOFF.
 GAS ANALYSIS
 DATE/ANALYST..... 1971/06/30 GUNTER, B.D.
 ANALYSIS IN MOLE %
 AR.... 1.02
 CH4.... 0.49
 C2-H6....
 CO2.... 39.
 H2.... 9
 OTHER ANALYTICAL DATA: AR/N2 = 2.17.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COLLECTOR AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COLLECTOR CROSS INDEX..... NEH-223
 REFERENCE..... GUNTER, 1973

RECORD 00286

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020318

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAMED SPHINX
 LOCALITY... TOWNSHIP-RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR... 1971/06/29
 SAMPLE NUMBER... 204
 TEMPERATURE (C)... 83.
 DISCHARGE... R 0.2 L/MIN
 OTHER SAMPLE INFORMATION... VERY SMALL SPRING.
 GAS ANALYSIS
 DATE/ANALYST... 1971/07/00 GUNTER, H.D.
 ANALYSIS IN MOLE %
 AR... 1.2
 CH4... 0.99
 C2H6... 15.
 CO2... 9.
 H2... 9.
 OTHER ANALYTICAL DATA PH TEST WITH PH PAPER = 8.2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-222
 REFERENCED... GUNTER, 1973

ISOTOPES_LOG

GÉOTHERMÉTREÉ SAMPLÉE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - PUNCH BOWL SPRING
 LOCALITY... TOWNSHIP-RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 70
 TEMPERATURE (C)... 83.
 GAS ANALYSIS
 DATE/ANALYST... 1965/06/00 GUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 AR... 0.00
 CH4... 0.87
 C2H6... 92.
 CO2... 1.
 H2... 1.
 OTHER ANALYTICAL DATA PH TEST WITH PH PAPER = 8.2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-206
 REFERENCED... GUNTER AND MUSGRAVE, 1966

RECORD 00287

GÉOTHERMÉTREÉ SAMPLÉE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - PUNCH BOWL SPRING
 LOCALITY... TOWNSHIP-RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 70
 TEMPERATURE (C)... 83.
 GAS ANALYSIS
 DATE/ANALYST... 1965/06/00 GUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 AR... 0.00
 CH4... 0.87
 C2H6... 92.
 CO2... 1.
 H2... 1.
 OTHER ANALYTICAL DATA PH TEST WITH PH PAPER = 8.2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-206
 REFERENCED... GUNTER AND MUSGRAVE, 1966

RECORD 00287

GÉOTHERMÉTREÉ SAMPLÉE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - PUNCH BOWL SPRING
 LOCALITY... TOWNSHIP-RANGE
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 70
 TEMPERATURE (C)... 83.
 GAS ANALYSIS
 DATE/ANALYST... 1965/06/00 GUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 AR... 0.00
 CH4... 0.87
 C2H6... 92.
 CO2... 1.
 H2... 1.
 OTHER ANALYTICAL DATA PH TEST WITH PH PAPER = 8.2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-206
 REFERENCED... GUNTER AND MUSGRAVE, 1966

RECORD 00287

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - PUNCHBOWL SPRING
 LOCATION
 COUNTY..... WYOMING
 STATE..... UNITED STATES

COUNTRY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR..... 1939/09/00
 SAMPLE NUMBER..... 13
 TEMPERATURE (C)..... 92.8

WATER ANALYSIS
 ANALYSIS IN PPM

AG.....	CO3.....	52.	
B.....	F.....	20.	
HE.....	FE(TOT).....	NA.....	SI02.
CA.....	HCO3.....	487.	S04..
CL.....			19.
CO.....	K.....	20.	

GAS ANALYSIS
 ANALYSIS IN VOLUME %

CH4...	0.95	H2S...	N
C2H6...		N2...	9.2
CO2...	H2,	O2...	0.8
H2...	N		

OTHER ANALYTICAL DATA... H2O3 = 19. PPM; S2O3 = 1. PPM.
 QUALIFICATION FIELD N2 = N2 + AR
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-175
 REFERENCE..... ALLEN AND DAY, 1935.

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - RIVERSIDE GEYSER
 LOCATION
 COUNTY..... TETON
 STATE..... WYOMING
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR..... 1930/09/00
 TEMPERATURE (C)..... 93.5

WATER ANALYSIS
 ANALYSIS IN PPM

AG.....	CO3.....	54.	L1....	S.....	T
AL.....	N				
B.....	2.0	H.....	NA.....	SI02.	242.
HE.....		FE(TOT).....	NH.....	S04..	10.
CA.....	N	HCO3.....	329.		
CL.....	290.				
CO.....					

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - RIVERSIDE GEYSER
 LOCATION
 COUNTY..... TETON
 STATE..... WYOMING
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE / COLLECTOR..... 1930/09/00
 TEMPERATURE (C)..... 93.5

WATER ANALYSIS
 ANALYSIS IN PPM

AG.....	CO3.....	54.	L1....	S.....	T
AL.....	N				
B.....	2.0	H.....	NA.....	SI02.	242.
HE.....		FE(TOT).....	NH.....	S04..	10.
CA.....	N	HCO3.....	329.		
CL.....	290.				
CO.....					

OTHER ANALYTICAL DATA... S202 = 3. ppm.
 QUALIFICATION FIELD... B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00290

GÉOTHERM-SAMPLE-FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SAPPHIRE SPRING

LOCATION IOWA-SHIE-BANKE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE.....

OTHER LOCALITY INFORMATION: NORTH END OF BISCUIT BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

TEMPERATURE (C)..... 94.5

WATER ANALYSIS

CHARGE BALANCE (% DIFF).... 1.8

A. ANALYSIS IN ppm

Al	11	CO3.....	66.	L1....		\$....	Q 0.67
AL	11	CR.....		MG....	T		
H	12.4	F.....	22.	NA....	453.	S102.	321.
HE		FE(TOT)	1	Nb....		S04..	15.
BI		GA.....		NH4...	N		
CA	4.	HCO3....	466.				
CL	307.	K.....	17.				

COMPOSITION FIELD: B CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00291

GÉOTHERM-SAMPLE-FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SAWMILL GEYSER

LOCATION IOWA-SHIE-BANKE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

TEMPERATURE (C).... 89.6

WATER ANALYSIS

A. ANALYSIS IN ppm

Ag.....

Fe(TOT).....

HCO3....

20B.

Na....

S04..

54.

P.....

Ca.....

341.

Cl.....

341.

Reference Agua IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

RECORD 00292

GÉOTHERM FILE ID: 0020258

COORDINATES

LAT/LUNG... 44-28-48 N 110-51-15 W

ISOLOPES_10/2002

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SENTINEL SPRING
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1930/00/00
TEMPERATURE (C)... 93.5
WATER ANALYSIS
ANALYSIS IN PPM
Ag..... CO3..... 90.
HE..... FE(TOT)..... NB....
CA..... HCO3..... 303.
CL..... ?40.

REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SOLITARY SPRING
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1930/00/00
TEMPERATURE (C)... 92.5
WATER ANALYSIS
CHARGE IMBALANCE (% DIFF)... 2.3
ANALYSIS IN PPM
Ag..... CO3..... 47.
Al..... CR.....
B..... F.....
Br..... FE(TOT)..... N
Cl..... GA.....
Ca..... HCO3.....
Cl..... 317.

LJ..... HCO3..... N
S..... 317. S102.
K..... NB..... S04..
N..... NH4..... N
ISOTOPEES_10/001
QUALIFICATION FIELD... S CALCULATED FROM S202.
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

GEOETHERM SAMPLE FILE
RECORD 00292
GEOTHERM FILE ID: 0020334
RECORD 00293
GEOTHERM FILE ID: 0020321
RECORD 00294
GEOTHERM FILE ID: 0020329

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SPASMODIC GEYSER
 LOCATION... TOWNSHIP=RANGE

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1930/00/00

TEMPERATURE (C)... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

Ag... CO3... 152.

Fe(TOT)... NB...

HC03... 104.

Ca...

Cl... 364.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE... ALLEN AND DAY, 1935

GEOOTHERM_SAMPLE_ELE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SPLENDID GEYSER

LOCATION... TOWNSHIP=RANGE

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1930/00/00

TEMPERATURE (C)... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

Ag... CO3... 54.

Fe(TOT)... NB...

HC03... 538.

Ca...

Cl... 368.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE... ALLEN AND DAY, 1935

RECORD 00295

GEOOTHERM_SAMPLE_ELE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SPONGE GEYSER

LOCATION... TOWNSHIP=RANGE

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1930/00/00

TEMPERATURE (C)... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

Ag... CO3... 105.

Fe(TOT)... NB...

HC03...

RECORD 00296

GEOATHERM FILE ID: 0020336

COORDINATES

ISOTOPEES_10Z001

RECORD 00297

GEOATHERM_SAMPLE_ELE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SPONGE GEYSER

LOCATION... TOWNSHIP=RANGE

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1930/00/00

TEMPERATURE (C)... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

Ag... CO3... 105.

Fe(TOT)... NB...

HC03...

ISOTOPEES_10Z001

CLASSE 429.

GAS ANALYSIS

REFERENCE AND IDENTIFICATION N2000 N

COMPILED BY..... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00297

GEOETHERM SAMPLE FILE NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SPOUTER SPRING

LOCATION COUNTRY... UNITED STATES STATE... WYOMING

COUNTY... TETON MAP REFERENCE..... OLD FAITHFUL 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

TEMPERATURE (C)..... 92.5

WATER ANALYSIS

DATE/ANALYST IN PPM

AG..... CO3.... 87.0

HT..... FE(TOT).... NH.... 29.

CA..... HC03.... 46.3.

CL..... 31.5.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00298

GEOETHERM SAMPLE FILE NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SULFURE SPRING

LOCATION COUNTRY... UNITED STATES STATE... WYOMING

COUNTY... TETON MAP REFERENCE..... OLD FAITHFUL 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 2

TEMPERATURE (C)..... 77.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH4.... 1.0

C2H6.... 0.5

CO.... 0.2

N2.... 0.2

O2.... 0.2

PH = 6.5

QUALIFICATION FIELD..... O2 = 0.2 + AK

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

ISOTOPE LOG

ISOTOPE LOG

RECORD 00299

GEOETHERM FILE LAT LONG

LAT/LONG... 44-27.7 N 110-51.3 W

GEOETHERM FILE LAT LONG

LAT/LONG... 44-28.50 N 110-50.00 W

GEOETHERM FILE LAT LONG

LAT/LONG... 44-28.50 N 110-50.00 W

COMPILED BY..... U.S. GEOLOGICAL SURVEY
 COMPTILER CROSS INDEX..... NEH-182
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEO THERM SAMPLE LIST

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TEAKETTE SPRING
 LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION..... OLD FAITHFUL
 DATE/COLLECTOR..... 1970/06/00
 SAMPLE NUMBER..... 12
 WATER ANALYSIS

CHARGE IMBALANCE (% DIFF).... 2.6

AG.....	CO3.....	4.	L.I.	N	S.	N
AL..... N	GR.....		Mg.....			
H.....	F.....		Na.....	357.	\$102.	357.
HT.....	FETOT..... N		Nb.....			
HI.....	GA.....		NH4.....	N	\$04..	84.
CA.....	HC03.....	134.				
CL..... 414.						
CO.....	K.....	23.				

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4.....	0.0	H2S.....	N
C2H6.....		N2.....	0 11.65
CO2.....	80.	O2.....	0.3

H2..... N

OTHER ANALYTICAL DATA... S203 = 2. PPM H203 = 21. PPM.
 QUALIFICATION FIELD..... N2 = N2 + AR
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 COMPTILER CROSS INDEX..... NEH-174
 REFERENCE..... ALLEN AND DAY, 1935.

GEO THERM FILE 101 0020271

COORDINATES LAT/LONG... 44-27.43 N 110-50.00 W

GEO THERM SAMPLE LIST

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TEAKETTE SPRING
 LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION..... OLD FAITHFUL
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 120
 TEMPERATURE (C)..... 92.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, R.D. AND MUSGRAVE, B.C.

GEO THERM FILE 101 0020272

COORDINATES LAT/LONG... 44-27.43 N 110-50.00 W

GEO THERM SAMPLE LIST

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TEAKETTE SPRING
 LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION..... OLD FAITHFUL
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 120
 TEMPERATURE (C)..... 92.

GEO THERM FILE 101 0020273

COORDINATES LAT/LONG... 44-27.43 N 110-50.00 W

ISOTOPES_100Z01

ANALYSIS IN MOLE %

CH ₄ ...	0.08
C ₂ H ₆ ...	
CO ₂ ...	2.3
H ₂ ...	N

02... 02... 02... 02...

OTHER ANALYTICAL DATA... PH = 8.3.
QUALIFICATION FIELD... O₂ = 0.2 + AK
REFERENCE ALB-LUNNIE-EATON
COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CRUSIS INDEX... NEH-21
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00301

GEOETHERM SAMPLE E16
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - THREE SISTERS SPRING

LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR... 1930/06/00
TEMPERATURE (C)... 90.5
WATER ANALYSIS
GAS ANALYSIS IN PPB
AG... 003... 117.
HE... FE(101)... NB...
CA... HC03... 10.
CL... 426.

REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00302

GEOETHERM SAMPLE E16
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - THREE SISTERS SPRING

LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE / COLLECTOR... 1965/06/00
SAMPLE NUMBER... 1
GAS ANALYSIS
DATE / ANALYST... 1965/06/00 GUNTER AND MUSGRAVE
ANALYSIS IN MOLE %
CH₄... 0.91
C₂H₆...
CO₂... 2.8
H₂... N

ISOTOPES_100Z02
ISOTOPES_100Z03

02... 02... 02...

87.73
8.6
8.9
OTHER ANALYTICAL DATA... PH = 8.9.

GEOETHERM FILE ID: 0020278

LAT/LONG... 44-28.5 N 110-50.0 W

RECORD 00303

GEOETHERM FILE ID: 0020279

LAT/LONG... 44-28.5 N 110-50.0 W

DUAL IDENTIFICATION FIELD, 02 = 02 + AR
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-181
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00303

GÉOTHERM SAMPLE-EILLE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TOPAZ SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 GAS ANALYSIS IN VOLUME %

CH₄... H₂S... N₂... N 34.25
 C₂H₆... N₂... O 3.8
 CO₂... 62. 02... 3.8

DUAL IDENTIFICATION FIELD, N₂ = N₂ + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-173
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00304

GÉOTHERM SAMPLE-EILLE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TORTOISE SHELL SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 94.5
 WATER ANALYSIS IN PPM

AG... C03... 76. Li... MG... N S... T
 AL... CR... N H... NA... 420. S102. 329.
 H... O 3.0. F... N NB... S04... 18.
 BE... FE(101)... CA... HCU3... 282.
 CA... N CL... 3d1. Cu... K... 23.
 CL... Cu... OTHER ANALYTICAL DATA... S2n2 = J. PP4.
 BE... BE... REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

GÉOTHERM FILE ID: 0020270

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TOPAZ SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00

MAP REFERENCE..... OLD FAITHFUL 1:62500
 GAS ANALYSIS IN VOLUME %

CH₄... H₂S... N₂... N 34.25
 C₂H₆... N₂... O 3.8
 CO₂... 62. 02... 3.8

REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-173
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00305

GÉOTHERM FILE ID: 0020322

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TORTOISE SHELL SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 94.5
 WATER ANALYSIS IN PPM

AG... C03... 76. Li... MG... N S... T
 AL... CR... N H... NA... 420. S102. 329.
 H... O 3.0. F... N NB... S04... 18.
 BE... FE(101)... CA... HCU3... 282.
 CA... N CL... 3d1. Cu... K... 23.
 CL... Cu... OTHER ANALYTICAL DATA... S2n2 = J. PP4.
 BE... BE... REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00305

GÉOTHERM SAMPLE FIELÉ
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED DRILL HOLE
 LOCATION
 COUNTY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: BACK OF OLD FAITHFUL INN.
 SAMPLE DESCRIPTION AND CONNELLONS
 DATE/COLLECTOR..... 1935/06/00
 SAMPLE NUMBER..... 18

GAS ANALYSIS

ANALYSIS IN VOLUME %
 CH₄... 0.1 H₂S... 0.55
 C₂H₆... N2... 0.15
 CO₂... 95.02... N
 H₂... 0.1

QUALIFICATION FIELD**REFERENCE AND IDENTIFICATION**

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-180
 REFERENCE..... ALLEN AND DAY, 1935.

GÉOTHERM SAMPLE FIELÉ
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: 40M SOUTH OF MORNING GLORY POOL.
 SAMPLE DESCRIPTION AND CONNELLONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 10

GAS ANALYSIS**DATE/ANALYST****ANALYSIS IN MULÉ**

q

C₂H₆... 2.2CO₂... 1.1H₂... N

N2... 15.19

O₂... 1.3

GÉOTHERM SAMPLE FIELÉ
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION
 COUNTY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: 40M SOUTH OF MORNING GLORY POOL.
 SAMPLE DESCRIPTION AND CONNELLONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 10

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE
ANALYSIS IN MULÉ q

q

C₂H₆... 0.2CO₂... 0.1H₂... N

N2... 15.19

O₂... 1.3**QUALIFICATION FIELD****REFERENCE AND IDENTIFICATION**

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX..... NEH-180
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00306

GÉOTHERM FILE 101 0020282
 COORDINATES
 LAT/LONG... 44-27-03 N 110-50-33 W

RECORD 00306

GÉOTHERM FILE 101 0020300
 COORDINATES
 LAT/LONG... 44-27-43 N 110-50-00 W

RECORD 00306

GÉOTHERM FILE 101 0020300
 COORDINATES
 LAT/LONG... 44-27-43 N 110-50-00 W

RECORD 00307

GEOTHERM FILE ID: 0C20299

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: 30M SE OF MORNING GLORY POOL.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 9

TEMPERATURE (C)..... 63.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %

CH4... 1.3

C2H6... 88.

CO2... 88.

H2... 14

N2... 9.4

O2... 0.1

Ar... 0.1

He... 0.1

Ne... 0.1

Kr... 0.1

Xe... 0.1

Rn... 0.1

F2... 0.1

Cl2... 0.1

Br2... 0.1

I2... 0.1

S2... 0.1

Se... 0.1

Te... 0.1

Po... 0.1

At... 0.1

Fr... 0.1

Ra... 0.1

GEOGRAPHIC SAMPLE SITE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: GROUP 50M UPSTREAM FROM FIREHOLE BRIDGE.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 23

TEMPERATURE (C)..... 81.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %

CH4... 0.64

C2H6... 96.

CO2... 4

H2... 4

N2... 3.1

O2... 0.15

Ar... 0.1

He... 0.1

Ne... 0.1

Kr... 0.1

Xe... 0.1

Rn... 0.1

F2... 0.1

Cl2... 0.1

Br2... 0.1

I2... 0.1

S2... 0.1

Se... 0.1

Te... 0.1

Po... 0.1

At... 0.1

Fr... 0.1

Ra... 0.1

RECORD 00308

GEOTHERM FILE ID: 0020405

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: UPPER POOL OF GROUP 50M UPSTREAM FROM FIREHOLE BRIDGE.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 23

TEMPERATURE (C)..... 81.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %

CH4... 0.64

C2H6... 96.

CO2... 4

H2... 4

N2... 3.1

O2... 0.15

Ar... 0.1

He... 0.1

Ne... 0.1

Kr... 0.1

Xe... 0.1

Rn... 0.1

F2... 0.1

Cl2... 0.1

Br2... 0.1

I2... 0.1

S2... 0.1

Se... 0.1

Te... 0.1

Po... 0.1

At... 0.1

Fr... 0.1

Ra... 0.1</

COMPILED CROSS INDEX... NEH-198
REFERENCING... GUNTER AND MUSGRAVE, 1966

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1162500
OTHER LOCALITY INFORMATION: 300M UPSTREAM FROM FIREHOLE BRIDGE, EAST BANK.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1965/06/00
SAMPLE NUMBER... 21
TEMPERATURE (C)..... 90.
GAS ANALYSIS
DATE/ANALYST... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
ANALYSIS IN MOLE %
CH4... 1.4
C2H6... N2... 9.76
CO2... 02... 0.66
H2... N
OTHER ANALYTICAL DATA... PH = 7.4.
QUALIFICATION FIELD... 02 = 02 + AR.
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILED CROSS INDEX... NEH-196
REFERENCE... GUNTER AND MUSGRAVE, 1966

GEOETHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1162500
OTHER LOCALITY INFORMATION: 300M DOWNSTREAM FROM MORNING GLORY POOL, ACROSS FROM FIREHOLE RIVER.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1965/06/13
SAMPLE NUMBER... H
TEMPERATURE (C)..... 91.
OTHER SAMPLE INFORMATION: CLEAR SPRING 2M IN DIAMETER.
GAS ANALYSIS
DATE/ANALYST... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
ANALYSIS IN MOLE %
CH4... 3.6
C2H6... N2... 33.92
CO2... 02... 2.1
H2... N
OTHER ANALYTICAL DATA... PH = 8.2.
QUALIFICATION FIELD.... 02 = 02 + AR.

RECORD 00309

RECORD 00310

GEOETHERM FILE ID: 0020309

GEOETHERM FILE ID: 0020310

RÉFÉRENCE_NOM_INNÉIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-186
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-BRANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: 2M ABOVE PIPELINE CREEK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 20
 POINT OF COLLECTION... SMALL CUE

GAS ANALYSIS
 DATE/ANALYST... 1965/07/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MULE %
 CH₄... 0.4
 C₂H₆...
 CO₂... 9.3
 H₂... L 0.4

QUALIFICATION FIELD... 02 = 02 + AR.
 RÉFÉRENCE_NOM_INNÉIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-195
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-BRANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: LOWER POOL BY NO. 23, 50M SOUTH OF FIREHOLE BRIDGE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTION... 1965/06/00
 SAMPLE NUMBER... 24
 TEMPERATURE (C)... 6.3.

GAS ANALYSIS
 DATE/ANALYST... 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MULE %
 CH₄... 0.62
 C₂H₆...
 CO₂... 6.0
 H₂... N

OTHER ANALYTICAL DATA... PH TEST. WITH PH PAPER) = 7.

RECORD 00311

GEOTHERM FILE ID: 0020312

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: 2M ABOVE PIPELINE CREEK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 20
 POINT OF COLLECTION... SMALL CUE

TOWNSHIP-BRANGE

N2... 4.8
 02... 0 1.3

RECORD 00312

GEOTHERM FILE ID: 0020306

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: LOWER POOL BY NO. 23, 50M SOUTH OF FIREHOLE BRIDGE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTION... 1965/06/00
 SAMPLE NUMBER... 24
 TEMPERATURE (C)... 6.3.

TOWNSHIP-BRANGE

LAT/LONG... 44-27.35 N 110-49.37 W

TOWNSHIP-BRANGE

N2... 31.43
 02... 0 8.1

OTHER ANALYTICAL DATA... PH TEST. WITH PH PAPER) = 7.

QUALIFICATION FIELD.....02 = 02 + AK.
 REFERENCE AND IDENTIFICATION
 COMPILED BY.....LAWSON, WILLIAM A.
 COMPILER AFFILIATION...U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX...NEH-199
 REFERENCE.....GUNTER AND MUSGRAVE, 1966

RECORD 00313

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY.....UNITED STATES
 STATE.....WYOMING

COUNTY.....TETON
 MAP REFERENCE.....OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: SOUGH OF PIPELINE CREEK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR.....1965/06/23 GUNTER AND MUSGRAVE
 SAMPLE NUMBER.....18

TEMPERATURE (C).....71
 OTHER SAMPLE INFORMATION: LARGE CLEAR BLUE SPRING.
 GAS ANALYSIS
 DATE/ANALYST.....1965/07/00 GUNTER AND MUSGRAVE

ANALYSIS IN PPM
 AR....0.12
 CH4....1.7
 C2H6....
 CO2....87.
 H2....
 OTHER ANALYTICAL DATA: PH = 6.4

REFERENCE AND IDENTIFICATION
 COMPILED BY.....LAWSON, WILLIAM A.
 COMPILER AFFILIATION...U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX...NEH-194
 REFERENCE.....GUNTER AND MUSGRAVE, 1966

RECORD 00314

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY.....UNITED STATES
 STATE.....WYOMING

COUNTY.....TETON
 OTHER LOCALITY INFORMATION: JUST BELOW FAN GEYSEN.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR.....1930/09/00
 TEMPERATURE (C).....92.5
 WATER ANALYSIS
 ANALYSIS IN PPM

CO3....121.
 FE(TOT)....NH...
 HC03....255.
 CL....266.
 OTHER ANALYSIS
 REFERENCE AND IDENTIFICATION

GEOETHERM FILE ID: 0020310

GEOETHERM FILE ID: 0020333

COMPILED HY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00315

GEOOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION..... TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: ACROSS HIGHWAY FROM CASTLE GEYSER.
 SAMPLE DESCRIPTION-AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/18
 SAMPLE NUMBER..... 44
 TEMPERATURE (C)..... 87.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/06/19 GUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH4..... 6.4
 C2H6..... N2.... 43.89
 CO2..... 46.... 02.... 0 3.4
 H2.... 11
 OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 7.
 QUALIFICATION FIELD... O2 = 02 + AH
 REFERENCE AND IDENTIFICATION
 COMPILED HY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-204
 REFERENCE..... GUNTER AND MUSGRAVE. 1966

RECORD 00316

GEOOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION..... TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: 30M NW OF ECONOMIC GEYSER.
 SAMPLE DESCRIPTION-AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/23
 SAMPLE NUMBER..... 16
 GAS ANALYSIS
 DATE/ANALYST..... 1965/06/24 GUNTER, H.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 AR.... 1.2
 CH4.... 2.4
 C2H6.... N2.... 91.29
 CO2.... 02.... 5.2
 H2.... N
 REFERENCE AND IDENTIFICATION
 COMPILED HY..... LAWSON, WILLIAM A.

COMPTLER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPTLER CROSS INDEX... NEH-192
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00317

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 STATE.....
 COUNTY TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: NORTH OF PIPELINE CREEK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/02
 SAMPLE NUMBER..... 17
 TEMPERATURE (C)..... 80°
 DISCHARGE..... R 46. L/MIN
 OTHER SAMPLE INFORMATION.. LARUE BROWN SPRING WITH PERIODIC OVERFLOW.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/03 GUNTER, H.U.
 ANALYSIS IN MULE %
 AR.... 0.18
 CH4.... 1.9
 C2H6....
 CO2.... Ab.
 CO.... 12.5
 N2.... 0.11

42....
 OTHER ANALYTICAL DATA: AR/N2 = 1.48.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPTLER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPTLER CROSS INDEX... NEH-215
 REFERENCE..... GUNTER, 1973

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 STATE.....
 COUNTY TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: 300M DOWNSTREAM FROM MORNING GLORY POOL, ACROSS FIREHOLE RIVER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/03 GUNTER, H.U.
 SAMPLE NUMBER..... B
 OTHER SAMPLE INFORMATION.. CLEAR SPRING 2M IN DIAMETER
 GAS ANALYSIS
 DATE/ANALYST..... 1971/06/03 GUNTER, H.U.
 ANALYSIS IN MULE %
 AR.... 0.97
 CH4.... b.b
 C2H6....
 CO2.... 36.

RECORD 00318

GEOETHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 STATE.....
 COUNTY TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: 300M DOWNSTREAM FROM MORNING GLORY POOL, ACROSS FIREHOLE RIVER.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/03 GUNTER, H.U.
 ANALYSIS IN MULE %
 AR.... 0.97
 CH4.... b.b
 C2H6....
 CO2.... 36.

RÉFÉRENCE
COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-214
REFERENCE..... GUNTER, 1973

GÉOTHERM SAMPLE FILE		GEOTHERM FILE ID: 0020319	
NAME OF SAMPLE SOURCE...	LOCATION	NAME OF SAMPLE SOURCE...	LOCATION
COUNTRY.....	UNITED STATES	COUNTRY.....	UNITED STATES
STATE.....	WYOMING	STATE.....	WYOMING
COUNTY.....	TETON	COUNTY.....	TETON
MAP REFERENCE.....	OLD FAITHFUL 1:62500	MAP REFERENCE.....	OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: A SUM DOWNSTREAM FROM FIREHOLE BRIDGE.		OTHER LOCALITY INFORMATION: A SUM DOWNSTREAM FROM FIREHOLE BRIDGE.	
SAMPLE DESCRIPTION AND CONDITIONS		SAMPLE DESCRIPTION AND CONDITIONS	
DATE/COLLECTOR.....	1971/06/30 GUNTER, B.D.	DATE/COLLECTOR.....	1971/06/30 GUNTER, B.D.
SAMPLE NUMBER.....	21	SAMPLE NUMBER.....	21
TEMPERATURE (C).....	91.	TEMPERATURE (C).....	91.
DISCHARGE (L/MIN).....	R 77.	DISCHARGE (L/MIN).....	R 77.
OTHER SAMPLE INFORMATION: LAKE BOILING SPRING.		OTHER SAMPLE INFORMATION: LAKE BOILING SPRING.	
WATER ANALYSIS		WATER ANALYSIS	
DATE/ANALYST.....	1971/07/00 GUNTER, B.D.	DATE/ANALYST.....	1971/07/00 GUNTER, B.D.
GAS ANALYSIS		GAS ANALYSIS	
DATE/ANALYST.....	1971/07/00 GUNTER, B.D.	DATE/ANALYST.....	1971/07/00 GUNTER, B.D.
AR.....	N 0.72	AR.....	N 0.72
CH ₄	T	CH ₄	T
C ₂ H ₆		C ₂ H ₆	
CO ₂	S2.	CO ₂	S2.
H ₂	N	H ₂	N
RÉFÉRENCE AND IDENTIFICATION		RÉFÉRENCE AND IDENTIFICATION	
COMPILED BY.....	LAWSON, WILLIAM A.	COMPILED BY.....	LAWSON, WILLIAM A.
COMPILER AFFILIATION...	U.S. GEOLOGICAL SURVEY	COMPILER AFFILIATION...	U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX...	NEH-217	COMPILER CROSS INDEX...	NEH-217
REFERENCE.....	GUNTER, 1973	REFERENCE.....	GUNTER, 1973
RECORD 00319		RECORD 00320	
GÉOTHERM SAMPLE FILE		GEOTHERM FILE ID: 0020311	
NAME OF SAMPLE SOURCE...	LOCATION	NAME OF SAMPLE SOURCE...	LOCATION
COUNTRY.....	UNITED STATES	COUNTRY.....	UNITED STATES
STATE.....	WYOMING	STATE.....	WYOMING
COUNTY.....	TETON	COUNTY.....	TETON
MAP REFERENCE.....	OLD FAITHFUL 1:62500	MAP REFERENCE.....	OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: SOUTH OF PIPELINE CREEK.		OTHER LOCALITY INFORMATION: SOUTH OF PIPELINE CREEK.	
SAMPLE DESCRIPTION AND CONDITIONS		SAMPLE DESCRIPTION AND CONDITIONS	
DATE/COLLECTOR.....	1971/06/00	DATE/COLLECTOR.....	1971/06/00
SAMPLE NUMBER.....	1d	SAMPLE NUMBER.....	1d
TEMPERATURE (C).....	75.	TEMPERATURE (C).....	75.
DISCHARGE (L/MIN).....	R 12.	DISCHARGE (L/MIN).....	R 12.
OTHER SAMPLE INFORMATION: LARGE CLEAR, BLUE SPRING.		OTHER SAMPLE INFORMATION: LARGE CLEAR, BLUE SPRING.	
GAS ANALYSIS		GAS ANALYSIS	

DATE/ANALYST..... 1971/06/06 GUNTER, H.D.

ANALYSIS IN MOLE %

AR...	0.30
CH...	1.5
C2H6	
CO2...	8.9
H2...	
OTHER ANALYTICAL DATA... AR/N2 = 2.29.	

QUALIFICATION FIELD... 02 = 02 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM S.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-216

REFERENCE..... GUNTER, 1973

GEOETHER SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING

LOCATION STATE..... UNITED STATES

COUNTRY..... WYOMING,

STATE..... TETON

COUNTY.....

MAP REFERENCE... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: EAST BANK OF IRON SPRING CREEK, NW OF SPOUTER SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 106

SAMPLE MATURE (C)..... 91.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH4...	1.3
C2H6...	
CO2...	91.
H2...	N
OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.	

QUALIFICATION FIELD... 02 = 02 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-216

REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOETHER SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING

LOCATION STATE..... UNITED STATES

COUNTRY..... WYOMING,

STATE..... TETON

COUNTY.....

MAP REFERENCE... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: 2nd NORTH OF PUNCH BOWL SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE MATURE..... 14

ISOTOPES_100ZU

RECORD 00321

GEOETHER SAMPLE FILE

NAME OF SAMPLE SOURCE... GEOTHERMAL SPRINGS

LOCATION STATE..... UNITED STATES

COUNTRY..... WYOMING,

STATE..... TETON

COUNTY.....

MAP REFERENCE... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: GEOTHERMAL SPRINGS

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

ISOTOPES_100ZU

RECORD 00322

GEOETHER SAMPLE FILE

NAME OF SAMPLE SOURCE... GEOTHERMAL SPRINGS

LOCATION STATE..... UNITED STATES

COUNTRY..... WYOMING,

STATE..... TETON

COUNTY.....

MAP REFERENCE... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: 2nd NORTH OF PUNCH BOWL SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

ISOTOPES_100ZU

RECORD 00325

GEOETHER SAMPLE FILE

NAME OF SAMPLE SOURCE... GEOTHERMAL SPRINGS

LOCATION STATE..... UNITED STATES

COUNTRY..... WYOMING,

STATE..... TETON

COUNTY.....

MAP REFERENCE... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: 2nd NORTH OF PUNCH BOWL SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

ISOTOPES_100ZU

JÉOPHÉMATURE (C)..... R₄.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

ISUOIPE_100Z01

CH₄... 0.31
 C₂H₆...
 CO₂... 4.04
 H₂... 14

OTHER ANALYTICAL DATA... PH = 9.2.
QUALIFICATION FIELD... U₂ = 02 + ARREFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPLIER CROSS INDEX... NEH-190
REFERENCE.....

GUNTER AND MUSGRAVE, 1966

GÉOTHERM SAMPLE ÉLÉ

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING

LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON

MAP REFERENCE... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: 2UM WEST Of 22 AT EDGE OF FIREHOLE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1971/06/30
SAMPLE NUMBER... 206

TEMPERATURE (C)... 64.

DISCHARGE (C)... R 4.7 L/MIN
OTHER SAMPLE INFORMATION: SMALL MUDDY SPRING.

GAS ANALYSIS

DATE/ANALYST... 1971/06/30 GUNTER, B.D.

ANALYSIS IN MOLE %

AR... 0.76
CH₄... 1
C₂H₆...
CO₂... 29.
H₂... 14OTHER ANALYTICAL DATA... AR/N₂ = 1.46.REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPLIER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPLIER CROSS INDEX... NEH-221
REFERENCE..... GUNTER, 1973GÉOTHERM SAMPLE ÉLÉ
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATION
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1:62500

RECORD 00323

GÉOTHERM FILE ID: 0020317

COORDINATES
LAT/LONG... 44-27.53 N 110-49.46 W

RECORD 00324

GÉOTHERM FILE ID: 0020316

COORDINATES
LAT/LONG... 44-27.35 N 110-49.37 W

RECORD 00325

OTHER LOCALITY INFORMATION: EAST BANK OF FIREHOLE RIVER JUST NORTH OF NEW BRIDGE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/23
 SAMPLE NUMBER..... 200
 TEMPERATURE (C)..... 49.
 DISCHARGE..... R 3.9 L/MIN
 OTHER SAMPLE INFORMATION: SMALL VIGOROUSLY ACTIVE SPRING.

GAS ANALYSIS
 DATE/ANALYST..... 1971/06/24 GUNTER, B.U.
 ANALYSIS IN MOLE %
 AR:..... 1.0
 CH4:..... 1.1
 CO2:..... 0.49
 N2:.....
 O2:..... 02.00 80.9
 CO:..... 02.00 16.
 H2:..... N

OTHER ANALYTICAL DATA: AR/42 = 1.32.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPUTER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPUTER CROSS INDEX..... NEH-220
 REFERENCE..... GUNTER, 1973

RECORD 00325
 GEOTHERM FILE ID: 0020315
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: INNER GEYSER BASIN - UNNAMED SPRING
 LOCATION COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1:62500
 OTHER LOCALITY INFORMATION: UPERMOST SPRING IN A GROUP 250M DOWNSTREAM FROM NO. 21, ON EAST BANK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/23
 SAMPLE NUMBER..... 23
 TEMPERATURE (C)..... 75.
 DISCHARGE..... R 2.0 L/MIN
 GAS ANALYSIS
 DATE/ANALYST..... 1971/06/24 GUNTER, B.U.
 ANALYSIS IN MOLE %
 AR:..... 0.28
 CH4:..... 1
 CO2:..... 02.00 6.74
 O2:..... 02.00 0.55
 H2:.....
 OTHER ANALYTICAL DATA: AR/42 = 4.48.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPUTER AFFILIATION..... U.S. GEOLOGICAL SURVEY
 COMPUTER CROSS INDEX..... NEH-219
 REFERENCE..... GUNTER, 1973

RECORD 00326
 GEOTHERM FILE ID: 0020314
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: INNER GEYSER BASIN - UNNAMED SPRING

LOCATION UNITED STATES
COUNTRY WYOMING
STATE TETON
COUNTY TETON
MAP REFERENCE OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: 20M DOWNSTREAM FROM 21 EAST BANK OF FIREHOLE RIVER, 170M DOWNSTREAM FROM BRIDGE, EAST OF OLD FAITHFUL.

SAMPLE DESCRIPTION AND CONDITIONS

DATE COLLECTOR 1971/06/30
SAMPLE NUMBER 22
TEMPERATURE (C) 82.
DISCHARGE (L/MIN) 35.
OTHER SAMPLE INFORMATION: SPRING IS SLIGHTLY TURBID.

GAS ANALYSIS

DATE ANALYST 1971/06/30 GUNTER, H.D.
ANALYSIS IN MOLE % AR... 1.0
CH4... 1
C2H6...
CO2... 16.
H2...
Other analytical data: AR/N2 = 1.60.

REFERENCE AND IDENTIFICATION

COMPILED BY LAWSON, WILLIAM A.
COMPLER AFFILIATION U.S. GEOLOGICAL SURVEY
COMPLER CROSS INDEX NEH-218
REFERENCE SUNIER, 1973

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE UNNAMED SPRING
LOCATION UNITED STATES
COUNTRY WYOMING
STATE TETON
MAP REFERENCE OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: 20M WEST OF BOARDWALK IN BISCUIT BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE COLLECTOR 1965/06/00
SAMPLE NUMBER 41
TEMPERATURE (C) 80.
Other analytical data: 1965/06/00 GUNTER, H.D. AND MUSGRAVE, B.C.

GAS ANALYSIS

ANALYSIS IN MOLE % CH4... 5
C2H6...
CO2... 46.
H2... 14

Other analytical data: PH TEST WITH PH PAPER = 7.5.

REFERENCE AND IDENTIFICATION

COMPILED BY LAWSON, WILLIAM A.
COMPLER AFFILIATION U.S. GEOLOGICAL SURVEY
COMPLER CROSS INDEX NEH-218
REFERENCE GUNTER AND MUSGRAVE, 1966

COORDINATES
LAT/LONG... 44-27.53 N 110-49.45 W

COORDINATES
LAT/LONG... 44-28.4 N 110-51.53 W

COORDINATES
LAT/LONG... 44-28.4 N 110-51.53 W

ISOTOPES 100/00

RECORD 00327

GEOTHERMAL FILE ID: 0020260

RECORD 00328

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAIRFIELD 1:62500
 OTHER LOCALITY INFORMATION: 40 M NORTH OF LION SPRING.
 SAMPLE DESCRIPTION AND CONDITION
 DATE/COLLECTOR..... 1965/06/12
 SAMPLE NUMBER.....
 TEMPERATURE (C)..... 84.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/13 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH4... 6.31
 C2H6... 1
 CO2... 1
 H2... N
 OTHER ANALYTICAL DATA... PH=8.9
 QUALIFICATION FIELD... O2=0.2 + AR
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-185
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 OTHER LOCALITY INFORMATION: 40 M NORTH OF LION SPRING.
 SAMPLE DESCRIPTION AND CONDITION
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 6
 TEMPERATURE (C)..... 89.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH4... 1
 C2H6... 1
 CO2... 1
 H2... N
 OTHER ANALYTICAL DATA... PH=9.1
 QUALIFICATION FIELD... O2=0.2 + AR
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-184

RECORD 00329

GEOTHERM FILE IUI 0020252

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 OTHER LOCALITY INFORMATION: 40 M NORTH OF LION SPRING.
 SAMPLE DESCRIPTION AND CONDITION
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 6
 TEMPERATURE (C)..... 89.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH4... 1
 C2H6... 1
 CO2... 1
 H2... N
 OTHER ANALYTICAL DATA... PH=9.1
 QUALIFICATION FIELD... O2=0.2 + AR
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-184

REFERENCE..... GUNTER AND MUSGRAVE, 1966

PAGE 0173

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATION... LOWNSHIRE RANGE
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: 40 M NORTH OF GIANTESS SPRING.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1965/06/00
SAMPLE NUMBER... 4
TEMPERATURE (C)... 82.5

GAS ANALYSIS
DATE/ANALYST... 1965/06/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %
CH₄... 0.95
C₂H₆...
CO₂... 7.3
H₂... 42.0
OTHER ANALYTICAL DATA... PH=7.3
QUALIFICATION FIELD... Q2=D2+AR
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-183
REFERENCE..... GUNTER AND MUSGRAVE, 1966

OTHER ANALYTICAL DATA... PH=7.3

QUALIFICATION FIELD... Q2=D2+AR

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-183

REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATION... LOWNSHIRE RANGE
COUNTRY... UNITED STATES
STATE... WYOMING
COUNTY... TETON
MAP REFERENCE... OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION: 10 METERS NE OF NO. 41
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1965/06/00
SAMPLE NUMBER... 42
TEMPERATURE (C)... 76.

GAS ANALYSIS
DATE/ANALYST... 1965/06/00 GUNTER, H.O. AND MUSGRAVE, H.C.
ANALYSIS IN MOLE %
CH₄... 0.19
C₂H₆...
CO₂... 8.9
H₂... 1
OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.
QUALIFICATION FIELD... Q2 = Q2 + AR
REFERENCE AND IDENTIFICATION
COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

ISOPROPS_100Z01

N2... 0.19
O2... 2.5

01-H-1 ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.
QUALIFICATION FIELD... Q2 = Q2 + AR
REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

RECORD 00330

GEOTHERM FILE IUI 0020250

RECORD 00331

GEOTHERM FILE IUI 0020261

COORDINATES
LAT/LONG... 44-28.44 N 110-51.52 W

RECORD 00332

GEOTHERM FILE IUI 0020262

COORDINATES
LAT/LONG... 44-28.44 N 110-51.52 W

COMPILER CROSS INDEX...
REFERENCE..... NEH-202
GUNTER AND MUSGRAVE, 1966

GÉOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - WEST SPRING

LOCATION LUMBERS-BRANGE

COUNTRY UNITED STATES
STATE WYOMING
COUNTY TETON
MAP REFERENCE OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION IN HISCUIT BASIN.
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1964/00/00
SAMPLE NUMBER..... 19
TEMPERATURE (C) 90.
OTHER SAMPLE INFORMATION. SMALL BOILING WATER POOL.
GAS ANALYSIS
DATE ANALYST... 1964/00/00 MAZOR AND WASSERBURG
ANALYSIS IN VOLUME %
H2O... 0.139
CH4... 7.3 H2S... N
C2H6... 0.2... 6.1
CO2... 0.2... 2.2

1E-3 ANALYTICAL DATA P=1.6 x 10(-4) + RH=2.5 x 10(-5) + XE=2.7 x 10(-6).
REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-224

REFERENCE..... MAZOR AND WASSERBURG, 1965

GÉOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - WITCHES CAULDRON

LOCATION LUMBERS-BRANGE

COUNTRY UNITED STATES
STATE WYOMING
COUNTY TETON
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1930/00/00
TEMPERATURE (C)..... 93.5
WATER ANALYSIS
ANALYSIS IN PPM

Ag.... CO3.... 54. NH... 504... 25.
HCl.... H (101)...
Ca.... HCO3.... 342.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00332

GEOETHERM FILE ID: 0020259

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - WEST SPRING

LOCATION LUMBERS-BRANGE

COUNTRY UNITED STATES
STATE WYOMING
COUNTY TETON
MAP REFERENCE OLD FAITHFUL 1:62500
OTHER LOCALITY INFORMATION IN HISCUIT BASIN.
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1964/00/00
SAMPLE NUMBER..... 19
TEMPERATURE (C) 90.
OTHER SAMPLE INFORMATION. SMALL BOILING WATER POOL.
GAS ANALYSIS
DATE ANALYST... 1964/00/00 MAZOR AND WASSERBURG
ANALYSIS IN VOLUME %
H2O... 0.139
CH4... 7.3 H2S... N
C2H6... 0.2... 6.1
CO2... 0.2... 2.2

1E-3 ANALYTICAL DATA P=1.6 x 10(-4) + RH=2.5 x 10(-5) + XE=2.7 x 10(-6).
REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-224

REFERENCE..... MAZOR AND WASSERBURG, 1965

RECORD 00333

GEOETHERM FILE ID: 0020331

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - WITCHES CAULDRON

LOCATION LUMBERS-BRANGE

COUNTRY UNITED STATES
STATE WYOMING
COUNTY TETON
SAMPLE DESCRIPTION AND CONDITIONS
DATE COLLECTOR..... 1930/00/00
TEMPERATURE (C)..... 93.5
WATER ANALYSIS
ANALYSIS IN PPM

Ag.... CO3.... 54. NH... 504... 25.
HCl.... H (101)...
Ca.... HCO3.... 342.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

GEOTHERM SAMPLE FILE		GEOTHERM FILE ID: 0020326	
NAME OF SAMPLE SOURCE	LOCATION	NAME OF SAMPLE SOURCE	LOCATION
COUNTRY.....	UNITED STATES	COUNTRY.....	UNITED STATES
STATE.....	WYOMING	STATE.....	WYOMING
COUNTY.....	TETON	COUNTY.....	TETON
SAMPLE DESCRIPTION AND CONDITIONS		SAMPLE DESCRIPTION AND CONDITIONS	
DATE/COLLECTOR.....	1930/00/00	DATE/COLLECTOR.....	1930/00/00
WATER ANALYSIS		WATER ANALYSIS	
CHARGE IMBALANCE (% DIFF).....	0.3	CHARGE IMBALANCE (% DIFF).....	0.3
ANALYSIS IN ppm		ANALYSIS IN ppm	
AG.....	CO3.....	AG.....	CO3.....
AL.....	31.	AL.....	31.
AI.....	CH4.....	AI.....	CH4.....
HE.....	F.....	HE.....	F(10T). N
CA.....	HCO3.....	CA.....	HCO3.....
CL.....	14.	CL.....	14.
KO.....	K.....	KO.....	K.....
DUAL INJECTION FIELD.....	9°	DUAL INJECTION FIELD.....	9°
REFERENCE AND IDENTIFICATION	S CALCULATED FROM S202.	REFERENCE AND IDENTIFICATION	S CALCULATED FROM S202.
COMPILED BY.....	LAWSON, WILLIAM A.	COMPILED BY.....	LAWSON, WILLIAM A.
COMPILER AFFILIATION.....	U.S. GEOLOGICAL SURVEY	COMPILER AFFILIATION.....	U.S. GEOLOGICAL SURVEY
REFERENCE.....	ALLEN AND DAY, 1935	REFERENCE.....	ALLEN AND DAY, 1935
GEOTHERM SAMPLE FILE		GEOTHERM FILE ID: 0020482	
NAME OF SAMPLE SOURCE	LOCATION	NAME OF SAMPLE SOURCE	LOCATION
COUNTRY.....	UNITED STATES	COUNTRY.....	UNITED STATES
STATE.....	WYOMING	STATE.....	WYOMING
COUNTY.....	TETON	COUNTY.....	TETON
MAP REFERENCE.....	WEST THUMB 1:62500	MAP REFERENCE.....	WEST THUMB 1:62500
SAMPLE DESCRIPTION AND CONDITIONS		SAMPLE DESCRIPTION AND CONDITIONS	
DATE/COLLECTOR.....	1965/06/00 GUNTER AND MUSGRAVE	DATE/COLLECTOR.....	1965/06/00 GUNTER AND MUSGRAVE
POINT OF COLLECTION.....	92	POINT OF COLLECTION.....	92
TEMPERATURE (C).....	96.	TEMPERATURE (C).....	96.
GAS ANALYSIS		GAS ANALYSIS	
WATER ANALYSIS.....	1965/06/00 GUNTER AND MUSGRAVE	WATER ANALYSIS.....	1965/06/00 GUNTER AND MUSGRAVE
ANALYSIS IN MOLE %		ANALYSIS IN MOLE %	
CH4.....	5.4	CH4.....	5.4
CO2.....	9.2	CO2.....	9.2
H2.....	6.4	H2.....	6.4
OTHER ANALYTICAL DATA.....	PH = 8.5	OTHER ANALYTICAL DATA.....	PH = 8.5
QUALIFICATION FIELD.....	O2 = 02 + AR.	QUALIFICATION FIELD.....	O2 = 02 + AR.
REFERENCE AND IDENTIFICATION		REFERENCE AND IDENTIFICATION	
COMPILED BY.....	LAWSON, WILLIAM A.	COMPILED BY.....	LAWSON, WILLIAM A.
COMPILER AFFILIATION.....	U.S. GEOLOGICAL SURVEY	COMPILER AFFILIATION.....	U.S. GEOLOGICAL SURVEY
CAPITOL CROSS INDEX.....	NEH-331	CAPITOL CROSS INDEX.....	NEH-331
REF ID.....		REF ID.....	

RECORD 00336

GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - BLACK POOL
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... WEST THUMB 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 93
 TEMPERATURE (C)..... 78.5
 GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH4... 4.3
 C2H6...
 CO2... 3.0 /
 H2... 0.4
 OTHER ANALYTICAL DATA... PH = 8.0.
 QUALIFICATION FIELD... U2 = 0.2 + AK.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-332
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - EPHEMERA GEYSER
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... WEST THUMB 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 95
 TEMPERATURE (C)..... 89.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH4... 1.0
 C2H6...
 CO2... 9.1 /
 H2... N

QUALIFICATION FIELD... PH = 7.9.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-334
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 0020483

NAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - BLACK POOL
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... WEST THUMB 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 93
 TEMPERATURE (C)..... 78.5
 GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %

GEOTHERM FILE ID: 0020483
 COORDINATES
 LAT/LONG... 44-25. N 110-34. W
GEOTHERM FILE ID: 0020485
 COORDINATES
 LAT/LONG... 44-24. N 110-34. W
GEOTHERM FILE ID: 0020486
 COORDINATES
 LAT/LONG... 44-24. N 110-34. W
GEOTHERM FILE ID: 0020487

RECORD 00338

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... WEST THUMB 1:62500
 OTHER LOCALITY INFORMATION: 60M SOUTHEAST OF LAKE SHORE GEYSER AT TIN BOARDWALK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1965/09/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER... 94

TEMPERATURE (°C)... 84.1

PRESSURE (kPa)... 1013

OTHER SAMPLE INFORMATION... SMALL SPRING.

GAS ANALYSIS

DATE/ANALYST... 1965/09/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH₄... 0.4dC₂H₆...CO₂...H₂...N₂...O₂...H₂O...

Ar...

He...

Ne...

Kr...

Xe...

Rb...

Cs...

Ba...

Ra...

K...

Sr...

Ba...

Cs...

Ra...

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... WEST THUMB 1:62500
 OTHER LOCALITY INFORMATION: 60M SOUTHEAST OF LAKE SHORE GEYSER AT TIN BOARDWALK.SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1965/09/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER... 94

TEMPERATURE (°C)... 84.1

PRESSURE (kPa)... 1013

OTHER SAMPLE INFORMATION... SMALL SPRING.

GAS ANALYSIS

DATE/ANALYST... 1965/09/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH₄... 0.4dC₂H₆...CO₂...H₂...N₂...O₂...H₂O...

Ar...

He...

Ne...

Xe...

Rb...

Cs...

Ba...

Cs...

Ra...

K...

Sr...

RECORD 00340

GEOHEMISCHÉ-ÉLÉ
 NAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - UNNAMED SPRING
LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MGR REFERENCE..... WEST THUMB 1162500
 OTHER LOCALITY INFORMATION: APPROX. 630 FT WEST OF LAKE I SW OF DUCK LAKE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 28

GAS ANALYSIS

QUALIFICATION FIELD IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPLIER AFFILIATION..... U.S. GEOLOGICAL SURVEY

COMPLIER CROSS INDEX..... NEM-329

REFERENCE..... ALLEN AND DAY, 1935

ANALYSIS IN VOLUME %

CH₄... 1.0C₂H₆... 0.0CO₂... 44.H₂... 14.N₂... 1.0O₂... 0.2S₂H₆... 0.0S₂O₃... 0.0S₂O₄... 0.0S₂O₅... 0.0S₂O₆... 0.0S₂O₇... 0.0S₂O₈... 0.0S₂O₉... 0.0S₂O₁₀... 0.0S₂O₁₁... 0.0S₂O₁₂... 0.0S₂O₁₃... 0.0S₂O₁₄... 0.0S₂O₁₅... 0.0S₂O₁₆... 0.0S₂O₁₇... 0.0S₂O₁₈... 0.0S₂O₁₉... 0.0S₂O₂₀... 0.0S₂O₂₁... 0.0S₂O₂₂... 0.0S₂O₂₃... 0.0S₂O₂₄... 0.0S₂O₂₅... 0.0S₂O₂₆... 0.0S₂O₂₇... 0.0S₂O₂₈... 0.0S₂O₂₉... 0.0S₂O₃₀... 0.0S₂O₃₁... 0.0S₂O₃₂... 0.0S₂O₃₃... 0.0S₂O₃₄... 0.0S₂O₃₅... 0.0S₂O₃₆... 0.0S₂O₃₇... 0.0S₂O₃₈... 0.0S₂O₃₉... 0.0S₂O₄₀... 0.0S₂O₄₁... 0.0S₂O₄₂... 0.0S₂O₄₃... 0.0S₂O₄₄... 0.0S₂O₄₅... 0.0S₂O₄₆... 0.0S₂O₄₇... 0.0S₂O₄₈... 0.0S₂O₄₉... 0.0S₂O₅₀... 0.0S₂O₅₁... 0.0S₂O₅₂... 0.0S₂O₅₃... 0.0S₂O₅₄... 0.0S₂O₅₅... 0.0S₂O₅₆... 0.0S₂O₅₇... 0.0S₂O₅₈... 0.0S₂O₅₉... 0.0S₂O₆₀... 0.0S₂O₆₁... 0.0S₂O₆₂... 0.0S₂O₆₃... 0.0S₂O₆₄... 0.0S₂O₆₅... 0.0S₂O₆₆... 0.0S₂O₆₇... 0.0S₂O₆₈... 0.0S₂O₆₉... 0.0S₂O₇₀... 0.0S₂O₇₁... 0.0S₂O₇₂... 0.0S₂O₇₃... 0.0S₂O₇₄... 0.0S₂O₇₅... 0.0S₂O₇₆... 0.0S₂O₇₇... 0.0S₂O₇₈... 0.0S₂O₇₉... 0.0S₂O₈₀... 0.0S₂O₈₁... 0.0S₂O₈₂... 0.0S₂O₈₃... 0.0S₂O₈₄... 0.0S₂O₈₅... 0.0S₂O₈₆... 0.0S₂O₈₇... 0.0S₂O₈₈... 0.0S₂O₈₉... 0.0S₂O₉₀... 0.0S₂O₉₁... 0.0S₂O₉₂... 0.0S₂O₉₃... 0.0S₂O₉₄... 0.0S₂O₉₅... 0.0S₂O₉₆... 0.0S₂O₉₇... 0.0S₂O₉₈... 0.0S₂O₉₉... 0.0S₂O₁₀₀... 0.0S₂O₁₀₁... 0.0S₂O₁₀₂... 0.0S₂O₁₀₃... 0.0S₂O₁₀₄... 0.0S₂O₁₀₅... 0.0S₂O₁₀₆... 0.0S₂O₁₀₇... 0.0S₂O₁₀₈... 0.0S₂O₁₀₉... 0.0S₂O₁₁₀... 0.0S₂O₁₁₁... 0.0S₂O₁₁₂... 0.0S₂O₁₁₃... 0.0S₂O₁₁₄... 0.0S₂O₁₁₅... 0.0S₂O₁₁₆... 0.0S₂O₁₁₇... 0.0S₂O₁₁₈... 0.0S₂O₁₁₉... 0.0S₂O₁₂₀... 0.0S₂O₁₂₁... 0.0S₂O₁₂₂... 0.0S₂O₁₂₃... 0.0S₂O₁₂₄... 0.0S₂O₁₂₅... 0.0S₂O₁₂₆... 0.0S₂O₁₂₇... 0.0S₂O₁₂₈... 0.0S₂O₁₂₉... 0.0S₂O₁₃₀... 0.0S₂O₁₃₁... 0.0S₂O₁₃₂... 0.0S₂O₁₃₃... 0.0S₂O₁₃₄... 0.0S₂O₁₃₅... 0.0S₂O₁₃₆... 0.0S₂O₁₃₇... 0.0S₂O₁₃₈... 0.0S₂O₁₃₉... 0.0S₂O₁₄₀... 0.0S₂O₁₄₁... 0.0S₂O₁₄₂... 0.0S₂O₁₄₃... 0.0S₂O₁₄₄... 0.0S₂O₁₄₅... 0.0S₂O₁₄₆... 0.0S₂O₁₄₇... 0.0S₂O₁₄₈... 0.0S₂O₁₄₉... 0.0S₂O₁₅₀... 0.0S₂O₁₅₁... 0.0S₂O₁₅₂... 0.0S₂O₁₅₃... 0.0S₂O₁₅₄... 0.0S₂O₁₅₅... 0.0S₂O₁₅₆... 0.0S₂O₁₅₇... 0.0S₂O₁₅₈... 0.0S₂O₁₅₉... 0.0S₂O₁₆₀... 0.0S₂O₁₆₁... 0.0S₂O₁₆₂... 0.0S₂O₁₆₃... 0.0S₂O₁₆₄... 0.0S₂O₁₆₅... 0.0S₂O₁₆₆... 0.0S₂O₁₆₇... 0.0S₂O₁₆₈... 0.0S₂O₁₆₉... 0.0S₂O₁₇₀... 0.0S₂O₁₇₁... 0.0S₂O₁₇₂... 0.0S₂O₁₇₃... 0.0S₂O₁₇₄... 0.0S₂O₁₇₅... 0.0S₂O₁₇₆... 0.0S₂O₁₇₇... 0.0S₂O₁₇₈... 0.0S₂O₁₇₉... 0.0S₂O₁₈₀... 0.0S₂O₁₈₁... 0.0S₂O₁₈₂... 0.0S₂O₁₈₃... 0.0S₂O₁₈₄... 0.0S₂O₁₈₅... 0.0S₂O₁₈₆... 0.0S₂O₁₈₇... 0.0S₂O₁₈₈... 0.0S₂O₁₈₉... 0.0S₂O₁₉₀... 0.0S₂O₁₉₁... 0.0S₂O₁₉₂... 0.0S₂O₁₉₃... 0.0S₂O₁₉₄... 0.0S₂O₁₉₅... 0.0S₂O₁₉₆... 0.0S₂O₁₉₇... 0.0S₂O₁₉₈... 0.0S₂O₁₉₉... 0.0S₂O₂₀₀... 0.0S₂O₂₀₁... 0.0S₂O₂₀₂... 0.0S₂O₂₀₃... 0.0S₂O₂₀₄... 0.0S₂O₂₀₅... 0.0S₂O₂₀₆... 0.0S₂O₂₀₇... 0.0S₂O₂₀₈... 0.0S₂O₂₀₉... 0.0S₂O₂₁₀... 0.0S₂O₂₁₁... 0.0S₂O₂₁₂... 0.0S₂O₂₁₃... 0.0S₂O₂₁₄... 0.0S₂O₂₁₅... 0.0

RECORD 00342

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - EAK SPRING
 LOCATION
 COUNTY... UNITED STATES
 STATE... WYOMING
 COUNTRY... TETON
 MAP REFERENCE...
 OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN YELLOWSTONE NATIONAL PARK.
 SAMPLE DESCRIPTION AND CONDITION
 SAMPLE NUMBER... 3
 TEMPERATURE (C)... 95.
 WATER ANALYSIS

COORDINATES
LAT/LONG... 44-27.4 N 110-50.0 W

PH... CHARGE IMBALANCE (% DIFF)... 9.03
 ANALYSIS
 CO₂...
 AL... 4.0
 H... 4.0
 HE...
 HI...
 CA... 0.06
 CI...
 GL... 4.17.
 CO₂...
 DIFFERENCE AND IDENTIFICATION

COMPILED BY... SILVA, CHRISTOPHER L.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE... RECKENRIDGE AND HINCKLEY, 1978
 ANALYSIS
 CHARGE IMBALANCE (% DIFF)... 9.03
 CO₂...
 CR...
 LI... 2.0
 MG... 0.1
 NA... 3.05.
 NB... 504..
 NH4... 0.4
 FE(10%)... 0.05
 GA...
 HC0₃... 174.
 HS... 4.1
 K...
 17.

RECORD 00343

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - EXCELSIOR SPRING
 LOCATION
 COUNTY... UNITED STATES
 STATE... WYOMING
 COUNTRY... TETON
 MAP REFERENCE... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: MIDWAY GEYSER BASIN YELLOWSTONE NATIONAL PARK
 SAMPLE DESCRIPTION AND CONDITION
 SAMPLE NUMBER... 5
 TEMPERATURE (C)... 76.
 WATER ANALYSIS

COORDINATES
LAT/LONG... 44-31.23 N 110-50.08 WP...
 ANALYSIS
 CO₂...
 AL... 0.1
 AS... 2.0
 H... 3.04
 HE...
 CA... 2.0
 GL... 270.
 CO...
 CHARGE IMBALANCE (% DIFF)... 4.0
 CO₂... N
 CR...
 LI... 2.0
 MG... 0.1
 FE(10%)... 24.
 GA... 0.1
 HC0₃... 546.
 HS...
 K...
 76.

ISOTOPES_102001
 ISOTOPES_102001

RECORD 00342

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - EAK SPRING
 LOCATION
 COUNTY... UNITED STATES
 STATE... WYOMING
 COUNTRY... TETON
 MAP REFERENCE... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: MIDWAY GEYSER BASIN YELLOWSTONE NATIONAL PARK
 SAMPLE DESCRIPTION AND CONDITION
 SAMPLE NUMBER... 5
 TEMPERATURE (C)... 76.
 WATER ANALYSIS

COORDINATES
LAT/LONG... 44-31.23 N 110-50.08 WP...
 ANALYSIS
 CO₂...
 AL... 0.1
 AS... 2.0
 H... 3.04
 HE...
 CA... 2.0
 GL... 270.
 CO...
 CHARGE IMBALANCE (% DIFF)... 4.0
 CO₂... N
 CR...
 LI... 2.0
 MG... 0.1
 FE(10%)... 24.
 GA... 0.1
 HC0₃... 546.
 HS...
 K...
 76.

ISOTOPES_102001
 ISOTOPES_102001

REF ID: AAD111111111111
 COMPILED BY: SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION: U.S. GEOLOGICAL SURVEY
 REFERENCE: BRECKENRIDGE AND HINCKLEY, 1978

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: YELLOWSTONE - FIREHOLE LAKE (LOWER)
 LOCATION
 COUNTRY: UNITED STATES
 STATE: WYOMING
 COUNTY: TETON
 MAP REFERENCE: MAUISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN EAST OF FIREHOLE LAKE.
 SAMPLE DESCRIPTION AND CONDITIONS:
 SAMPLE NUMBER: 14
 TEMPERATURE (C): 93°
 DEPOSITS OR ALTERATION: DILUTE TRAVERTINE DEPOSITS
 WATER ANALYSIS

PARTIAL ANALYSIS
 Sample Balance (% DIFF): 6.83
 Sample Balance (% DIFF): 2.02
 ANALYSIS
 AG..... CO3..... Li..... 0.4
 AL..... CR..... Mg..... 0.05
 H..... F..... Na..... 85.
 HA..... FE+3..... Na+K..... SiO2.
 HF..... Fe(III)..... NB..... SN... 213.
 AI..... GA..... NH4..... 504... 27.
 CA..... HC03..... 165.
 CI..... H2S..... 0.2
 CL..... K..... 0.1
 CO..... K..... 16.
 GAS ANALYSIS
 CH4..... H2S...
 REFERENCE AND IDENTIFICATION

COMPILED BY: SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION: U.S. GEOLOGICAL SURVEY
 REFERENCE: TRUEVALE AND FOURNIER, 1976

GEOETHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE: YELLOWSTONE - HILLSIDE (UPPER)
 LOCATION
 COUNTRY: UNITED STATES
 STATE: WYOMING
 COUNTY: TETON
 MAP REFERENCE: OLD FAIRFIELD 1:62500
 OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN. WEST SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS:
 SAMPLE NUMBER: 13
 TEMPERATURE (C): 84.0°
 DEPOSITS OR ALTERATION: DILUTE TRAVERTINE DEPOSITS
 WATER ANALYSIS

RECORD 00344
 GEOFERM FILE ID: 0075081
 EQUIVALENTS
 LAT/LONG: 44-32.30 N 110-47.02 W

RECORD 00345
 GEOFERM FILE ID: 0075082
 EQUIVALENTS
 LAT/LONG: 44-28.2 N 110-51.5 W

REFERENCE AND LITERATURE CITED
COMPILED BY SILVA, CHRISTOPHER L.
COMPLIER AFFILIATION U.S. GEOLOGICAL SURVEY
REFERENCE TRUEVALE AND FOURNIER, 1976

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - LITTLE WHIRLIGIG GEYSER
 LOCATION TOWNSHIP-RANGE
 COUNTY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 OTHER LOCALITY INFORMATION: MURRIS GEYSER BASIN YELLOWSTONE NATIONAL PARK.
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER... 2
 TEMPERATURE (C)... 91.
 WATER ANALYSIS

ANALYSIS		C03.	N	L1...	5.3
AG.....	2.1	CR....		Mg....	0.5
AL.....		F....		NA....	349.
B.....	9.2	FELLO....	3.3	NB....	
HE....			1.0	S102.	420.
				SO4..	113.

RECDNU 00347
 GEOTHERM FILE 101: 00750
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - NEAR CLEPSEDRA GEYSER
 LOCATION COUNTY..... LOMNSHDE-BANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN YELLOWSTONE NATIONAL PARK.
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER: 6
 TEMPERATURE (C) 92.
 WATER ANALYSIS

P1..... 9.03
 CARGE IMPHALANCE (% DIFF) ... 0.3
 ANALYSIS
 AG.....
 AL.....
 H..... 3.0
 HF.....
 HI.....
 CA..... 0.5
 CL..... 36.3.
 REFERENCE AND IDENTIFICATION
 COMPILED BY SILVA, CHRISTOPHER L.
 COMPILE AFFILIATION ... U.S. GEOLOGICAL SURVEY
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

ISOTOPES (0/00)

	C03	64.	LI	6.7
	CR	...	M6	0.01
	F	...	NA	4.00
	FE(TOT)	0.05	NB	5102.
	GA	...	NH4	504..
	HCO3	159.		0.1
	K		
	CO2		24.

RECORD 00348

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE ... YELLOWSTONE - OJU CALIENTE SPRING (RIVER GROUP)
 LOCATION TOWNSHIP-RANGE
 COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 MAP REFERENCE MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN; YELLOWSTONE NATIONAL PARK; SW OF RUSH LAKE, EAST BANK OF FIREHOLE RIVER

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER 7

TEMPERATURE (C) 95.

WATER ANALYSIS

PH 8.03

CARGE IMPHALANCE (% DIFF) ... 2.1

	C03	...	LI	4.2
	CR	...	M6	0.02
	F	...	NA	335.
	FE+3	...	NA-K	SN4..
	FE(TOT)	...	NB	504..
	GA	...	NH4	0.3
	HCO3	...		225.
	H2S	...		1.3
	CL	3.31.	K	9.5
	CO2		

GAS ANALYSIS

CH4

REFERENCE AND IDENTIFICATION

COMPILED BY SILVA, CHRISTOPHER L.

COMPILE AFFILIATION ... U.S. GEOLOGICAL SURVEY

REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

ISOTOPES (0/00)

H2S ..

-20.6

ISOTOPES (0/00)

SEL C(13) OF CH4.....

RECORD 00349

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE ... YELLOWSTONE - RUSTIC GEYSER

GEOTHERM FILE ID: 0075085

RECORD 00351

GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - SNOOT SPRING
 LOCATION COUNTRY... UNITED STATES

STATE... WYOMING
 COUNTY... TETON

OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN YELLOWSTONE NATIONAL PARK.
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER... 6

TEMPERATURE (C)... 93.
 WATER ANALYSIS
 P-H... CHARGE IMBALANCE (% DIFF)... 9.34

ANALYSIS

AG...	0.18	CO3.....	69.	Li....	4.
AL...	4.1	CR.....		Mg....	0.04
H...		F.....	33.	Na....	314.
FE...		FE (TGT)	0.01	NB....	\$102.
AI...	1.6	GA.....		NH4....	\$04..
CA...		HCO3.....	41.		242.
CD...		H2S.....	1.3		23.
CL...	344.	K.....			
CO...		K.....	10.		

REFERENCE AND IDENTIFICATION

COMPILED BY... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00352

GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - SPIKE GEYSER
 LOCATION COUNTRY... UNITED STATES

STATE... WYOMING
 COUNTY... TETON

OTHER LOCALITY INFORMATION: HEART LAKE GEYSER BASIN YELLOWSTONE NATIONAL PARK.
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER... 9

TEMPERATURE (C)... 93.5
 WATER ANALYSIS
 P-H... CHARGE IMBALANCE (% DIFF)... 8.93

ANALYSIS

AG...		CO3.....	64.	Li....	6.7
AL...	3.0	CR.....		Mg....	0.01
H...		F.....	38.	Na....	400.
FE...		FE (TGT)		NB....	\$102.
AI...		GA.....		NH4....	\$04..
CA...	5.9	HCO3.....			366.
CD...	36.3	H2S.....	159.		100.
CL...		K.....			

REFERENCE AND IDENTIFICATION
 CO...

RECORD 00354

GEOTHERMAL FILE ID: 0075094
 NAME OF SAMPLE SOURCE... YELLOWSTONE - SNOOT SPRING
 LOCATION COUNTRY... UNITED STATES

STATE... WYOMING
 COUNTY... TETON

OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN YELLOWSTONE NATIONAL PARK.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER... 9

TEMPERATURE (C)... 93.5

WATER ANALYSIS
 P-H... CHARGE IMBALANCE (% DIFF)... 0.2

ANALYSIS

AG...		CO3.....	64.	Li....	6.7
AL...		CR.....		Mg....	0.01
H...		F.....	38.	Na....	400.
FE...		FE (TGT)		NB....	\$102.
AI...		GA.....		NH4....	\$04..
CA...		HCO3.....			366.
CD...		H2S.....	159.		100.
CL...		K.....			

REFERENCE AND IDENTIFICATION
 CO...

COMPILED BY... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... TRUESDALE AND FOURNIER, 1976

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - SPRING 192
 LOCATION LATITUDE=RANGE
 COUNTY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 OTHER LOCALITY INFORMATION: SHUSHONE GEYSER BASIN YELLOWSTONE NATIONAL PARK
 SAMPLE DESCRIPTION AND CONDITION
 SAMPLE NUMBER... 11
 TEMPERATURE (C)... 89.5
 WATER ANALYSIS

P_H... CHARGE IMBALANCE (% DIFF)... 1.9
 ANALYSIS
 AG... CO3... Li... 1.5
 AL... CR... Mg... 0.01
 B... 3.7 F... Na... 350.
 HE... FE(TOT)... NH... 504... 350.
 HI... GA... NH4... 0.1 70.
 CA... HCO3... 230.
 CL... 323.
 CO... K... 13.

REFERENCE AND IDENTIFICATION
 COMPILED BY... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... TRUESDALE AND FOURNIER, 1976

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - TERRACE
 LOCATION LATITUDE=RANGE
 COUNTY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: YELLOWSTONE NATIONAL PARK! 3345 FT NE OF MADISON JUNCTION! NORTH SIDE OF GRAND LOOP ROAD.
 SAMPLE DESCRIPTION AND CONDITION
 SAMPLE NUMBER... 15
 TEMPERATURE (C)... 66.
 DEPOSITS OR ALTERATION... VULUTE TRAVERTINE DEPOSITS
 WATER ANALYSIS

P_H... CHARGE IMBALANCE (% DIFF)... 0.5
 ANALYSIS
 AG... CO3... Li... 0.6
 AL... CR... Mg... 0.8
 B... 0.18 F... Na... 324.
 HI... 0.1 FE(TOT)... 0.15 504... 148.
 HE... 0.1

RECORD 00353

GEOTHERM FILE ID# 0075084

COORDINATES

COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON

ISOTOPES (0/00)

AG	CO3	Li	0.01
AL	CR	Mg	350.
B	F	Na	504..
HE	FE(TOT)	NH	70.
HI	GA	NH4	0.1
CA	HCO3		230.
CL	323.		
CO	K		13.

RECORD 00354

GEOTHERM FILE ID# 0075080

COORDINATES

LAT/LONG... 44-39.00 N 110-50.45 W

COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: YELLOWSTONE NATIONAL PARK! 3345 FT NE OF MADISON JUNCTION! NORTH SIDE OF GRAND LOOP ROAD.

ISOTOPES (0/00)

COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... MADISON JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: YELLOWSTONE NATIONAL PARK! 3345 FT NE OF MADISON JUNCTION! NORTH SIDE OF GRAND LOOP ROAD.

SAMPLE DESCRIPTION AND CONDITION
 SAMPLE NUMBER... 15
 TEMPERATURE (C)... 66.
 DEPOSITS OR ALTERATION... VULUTE TRAVERTINE DEPOSITS
 WATER ANALYSIS

ISOTOPES (0/00)

AG	CO3	Li	0.6
AL	CR	Mg	0.8
B	F	Na	324.
HI	FE(TOT)	NH	504... 148.
HE	0.1		11.

B•••••	5.	F•••••	0.8	NA•••	187.	\$102.
NE•••••		FE(TOT)	.	NB•••		\$04..
HI•••••		UA•••••		NH4..	171.	1530.
CA•••••	37.					
CL•••••	0.1					
CO•••••	K•••••		16.			

RÉFÉRENCE - AND IDENTIFICATION
 CHAPTELI HY. SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION U.S. GEOLOGICAL SURVEY
 REFERENCE..... RECKENRÜGE AND HINCKLEY. 1978

APPENDIX A

Index to GEOTHERM'S sample file for the state of Wyoming. This computer generated appendix contains some truncated fields. The index is sorted by county and name of the source. TNS - township, RNG range, Sect. - section, L.O. - GEOTHERM record identifier, Temp. - temperature °C (see Table 1 for explanation of alphabetic qualifiers preceding temperature.)

County	Name of Source	Latitude	Longitude	TNS	RNG	Sect.	L.O.	Temp..
BIG HORN	LITTLE SHEEP MOUNTAIN SPRING	44-44.90 N	108-11.35 W	55N	094W	17	0075000	20.
BIG HORN	SHEEP MOUNTAIN SPRINGS	44-36.45 N	108-08.13 W	56N	094W	35	0075001	21.
CARBON	SARATOGA HOT SPRINGS, HOBBO POOL	41-27.00 N	106-48.40 W	17N	084W	13	0075002	48.0
CARBON	SARATOGA HOT SPRINGS, HOBBO POOL	41-27.00 N	106-48.40 W	17N	084W	13	0075006	48.
CARBON	SARATOGA HOT SPRINGS, HOBBO POOL	41-27.00 N	106-48.40 W	17N	084W	13	0075004	48.
CARBON	SARATOGA HOT SPRINGS, HOBBO POOL	41-27.00 N	106-48.40 W	17N	084W	13	0075003	48.
CARBON	SARATOGA HOT SPRINGS, HOBBO POOL	41-27.00 N	106-48.40 W	17N	084W	13	0075005	49.
CONVERSE	Douglas Warm Spring	42-39.88 N	105-23.62 W	31N	071W	08	0075007	30.0
FREMONT	Conant Creek Springs	42-48.02 N	109-03.03 W	33N	094W	26	0075008	16.0
FREMONT	Fort Washakie Hot Springs	43-00.48 N	108-50.08 W	01S	001W	02	0075009	44.0
FREMONT	Fort Washakie Hot Springs	43-00.48 N	108-50.08 W	01S	001W	02	0075010	46.5
FREMONT	Fort Washakie Hot Springs	43-00.48 N	108-50.08 W	01S	001W	02	0075011	44.5
FREMONT	Jake's Fork Spring	43-29.38 N	109-36.48 W	41N	106W	29	0075012	20.0
FREMONT	Little Warm Spring	43-31.22 N	109-40.00 W	41N	107W	14	0075014	42.5.
FREMONT	Little Warm Spring	43-31.22 N	109-40.00 W	41N	107W	14	0075013	25.0
FREMONT	Sweetwater Station Spring No. 1	42-29.53 N	108-10.25 W	29N	095W	15	0075017	30.0
FREMONT	Sweetwater Station Spring No. 2	42-29.53 N	108-10.25 W	29N	095W	15	0075019	31.5
FREMONT	Sweetwater Station Spring No. 2	42-29.53 N	108-10.25 W	29N	095W	15	0075018	31.5
FREMONT	Warm Spring Creek Springs	43-33.60 N	109-43.88 W	42N	107W	32	0075016	q 29.
HOT SPRINGS	Warm Spring Creek Springs	43-33.60 N	109-43.88 W	42N	107W	32	0075015	29.0
HOT SPRINGS	Bathtub Spring	43-39.67 N	108-11.72 W	43N	095W	25	0075025	53.0
HOT SPRINGS	Big Spring	43-39.27 N	108-11.62 W	43N	094W	31	0075032	q 56.
HOT SPRINGS	Big Spring	43-39.27 N	108-11.62 W	43N	094W	31	0075030	56.0
HOT SPRINGS	Big Spring	43-39.27 N	108-11.62 W	43N	094W	31	0075034	56.
HOT SPRINGS	Big Spring	43-39.27 N	108-11.62 W	43N	094W	31	0075033	56.
HOT SPRINGS	Big Spring	43-39.27 N	108-11.62 W	43N	094W	31	0075031	56.
HOT SPRINGS	Black Sulphur Spring	43-39.32 N	108-11.63 W	43N	095W	36	0075029	q 55.
HOT SPRINGS	Maytag Well	43-40.47 N	108-12.23 W	43N	095W	24	0075021	54.0
HOT SPRINGS	Mccarthy Well	43-39.90 N	108-11.67 W	43N	094W	25	0075024	54.0
HOT SPRINGS	Piling Spring	43-39.27 N	108-12.00 W	43N	095W	36	0075028	35.0
HOT SPRINGS	Sacajamea Well	43-40.30 N	108-12.23 W	43N	095W	25	0075023	q 52.
HOT SPRINGS	Sacajamea Well	43-40.30 N	108-12.23 W	43N	095W	25	0075022	52.0
HOT SPRINGS	Van Norman Well	43-40.47 N	108-12.50 W	43N	095W	24	0075020	51.0
HOT SPRINGS	White Sulphur Spring	43-39.67 N	108-11.68 W	43N	094W	30	0075027	q 53.
HOT SPRINGS	White Sulphur Spring	43-39.67 N	108-11.68 W	43N	094W	30	0075026	53.0
HOT SPRINGS	Wind River Canyon Spring	43-34.92 N	108-13.73 W	42N	095W	25	0075036	22.0
HOT SPRINGS	Wind River Canyon Spring	43-34.92 N	108-13.73 W	42N	095W	25	0075037	q 22.
LINCOLN	Auburn Area	42-49.50 N	111-0.00 W				0000779	16.0
LINCOLN	Auburn Hot Springs	42-50.42 N	110-59.50 W	33N	119W	23	0075041	62.0
LINCOLN	Auburn Hot Springs	42-50.42 N	110-59.50 W	33N	119W	23	0075040	16.0
LINCOLN	Auburn Hot Springs	42-50.42 N	110-59.50 W	33N	119W	23	0075039	62.0
LINCOLN	Johnson Springs	42-49.08 N	110-59.50 W	33N	119W	26	0075042	46.0
NATRONA	Alcova Hot Springs	42-32.28 N	106-43.27 W	30N	083W	25	0075044	59.0
NATRONA	Alcova Hot Springs	42-32.28 N	106-43.27 W	30N	083W	25	0075043	54.0

PARK	NORRIS GEYSER BASIN - SPRING NO. 6	44-43.	N 110-42.	
PARK	NORRIS GEYSER BASIN - SPRING NO. 61	44-43.	N 110-43.	
PARK	NORRIS GEYSER BASIN - SPRING NO. 62	44-44.	N 110-42.	
PARK	NORRIS GEYSER BASIN - SPRING NO. 68	44-44.	N 110-42.	
PARK	NORRIS GEYSER BASIN - SPRING NO. 7	44-43.	N 110-42.	
PARK	NORRIS GEYSER BASIN - SPRING NO. 9	44-43.	N 110-42.	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-41.98	92.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-44.	N 110-43.	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-43.	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-43.	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-44.	N 110-43.	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-43.	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-43.	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.42	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.42	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.5	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.5	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.5	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.6	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.6	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.6	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-42.7	
PARK	NORRIS GEYSER BASIN - VERMILLION POOL	44-44.	N 110-43.	
PARK	YELLOWSTONE - CALCITE NO. 1	44-54.65	N 110-23.78	
PARK	YELLOWSTONE - CALCITE NO. 2	44-54.65	N 110-23.78	
PARK	YELLOWSTONE - CALCITE SPRINGS	44-54.65	N 110-23.78	
PARK	YELLOWSTONE - CHOCOLATE POTS	44-42.78	N 110-44.67	
PARK	YELLOWSTONE - CHOCOLATE POTS	44-42.77	N 110-44.67	
PARK	YELLOWSTONE - DEVIL'S INKPOT	44-45.53	N 110-25.85	
PARK	YELLOWSTONE - DEVIL'S INKPOT	44-45.53	N 110-25.85	
PARK	YELLOWSTONE - DEVIL'S INKPOT	44-45.53	N 110-25.85	
PARK	YELLOWSTONE - MUD VOLCANO	44-37.28	N 110-25.58	
PARK	YELLOWSTONE - NEW HIGHLAND	44-58.	N 110-42.	
PARK	YELLOWSTONE - NORRIS GEYSER BASIN - SPRING NO.	44-43.	N 110-42.	
PARK	YELLOWSTONE - PORK CHOP SPRING	44-37.28	N 110-25.58	W
PARK	YELLOWSTONE - SULFUR POOL	44-39.50	N 110-28.93	W
PARK	YELLOWSTONE - UNNAMED SPRING	44-32.38	N 110-15.22	W
PARK	YELLOWSTONE - UNNAMED SPRING	44-32.48	N 110-15.35	W
PARK	YELLOWSTONE - UNNAMED SPRING	44-46.00	N 110-25.80	W
PARK	YELLOWSTONE - UNNAMED SPRING	44-46.00	N 110-25.80	W
PARK	YELLOWSTONE - UNNAMED SPRING	44-39.53	N 110-28.75	W
PARK	YELLOWSTONE - UNNAMED SPRING	44-39.50	N 110-29.00	W
PARK	YELLOWSTONE - UNNAMED SPRING	44-39.50	N 110-28.93	W
PARK	IMMIGRANTS WASHTUB	42-14.97	N 104-46.82	W 26N 066W
PLATTE	IMMIGRANTS WASHTUB	42-14.97	N 104-46.82	W 26N 066W
PLATTE	BIG FALL CREEK SPRINGS	42-23.92	N 110-30.68	W 28N 066W
SUBLETTE	KENDALL WARM SPRINGS	43-16.93	N 110-01.13	W 38N 110W
SUBLETTE	KENDALL WARM SPRINGS	43-16.93	N 110-01.13	W 38N 110W
SUBLETTE	STEELE HOT SPRINGS - SPRING 1	42-44.98	N 109-36.97	W 32N 107W

SUBLETTE	STEELE HOT SPRINGS - SPRING 1	42-44.98 N 109-36.97 W 32N 107W	16	0075060 Q 35.5
SUBLETTE	STEELE HOT SPRINGS - SPRING 2	42-44.98 N 109-36.97 W 32N 107W	16	0075061 39.0
TETON	ABERCRONBIE WARM SPRINGS	43-32.75 N 110-44.37 W 41N 116W	02	0075063 27.0
TETON	ASTORIA SPRINGS	43-18.00 N 110-46.48 W 39N 116W	32	0075064 37.0
TETON	BLACK SAND BASIN - UNNAMED SPRING	44-27.67 N 110-51.65 W		0020296 88.
TETON	BLACK SAND BASIN - UNNAMED SPRING	44-27.7 N 110-51.3 W		0020295
TETON	BOYLE'S HILL SPRINGS	43-28.30 N 110-50.08 W 41N 117W	36	0075065 30.0
TETON	GRANITE FALLS HOT SPRINGS	43-21.90 N 110-26.57 W 39N 113W	06	0075066 45.0
TETON	GRANITE HOT SPRING	43-22.20 N 110-26.68 W 39N 113W	06	0075067 Q 41.0
TETON	GRANITE HOT SPRING	43-22.20 N 110-26.68 W 39N 113W	06	0075068 39.0
TETON	HEART LAKE GEYSER BASIN - RUSTIC GROUP - UNNAME	44-16.55 N 110-30.20 W		0020479
TETON	HILLSIDE GROUP - ASTA SPRING (NO. 3)	44-28.20 N 110-51.52 W		0020263
TETON	HILLSIDE GROUP - ASTA SPRING (NO. 3)	44-28.20 N 110-51.52 W		0020262
TETON	HILLSIDE GROUP - UNNAMED SPRING	44-28.20 N 110-51.52 W		0020265 84.
TETON	HILLSIDE GROUP - UNNAMED SPRING	44-06.88 N 110-41.18 W 48N 115W	20	0075072 Q 71.0
TETON	HUCKLEBERRY HOT SPRINGS	44-06.88 N 110-41.18 W 48N 115W	20	0075069 Q 45.0
TETON	HUCKLEBERRY HOT SPRINGS	44-06.88 N 110-41.18 W 48N 115W	20	0075071 Q 61.0
TETON	HUCKLEBERRY HOT SPRINGS	44-06.88 N 110-41.18 W 48N 115W	20	0075070 Q 61.0
TETON	JACKSON LAKE HOT SPRINGS	43-57.50 N 110-41.75 W		0075073 Q 72.0
TETON	KELLY WARM SPRING	43-38.37 N 110-36.92 W 42N 115W	02	0075074 27.0
TETON	LOWER GEYSER BASIN - IMPERIAL GEYSER	44-31.47 N 110-52.32 W		0020360 87.
TETON	LOWER GEYSER BASIN - BATH SPRING	44-32.2 N 110-50. W		0020379
TETON	LOWER GEYSER BASIN - BATH SPRING	44-33.2 N 110-50. W		0020378
TETON	LOWER GEYSER BASIN - FIREHOLE LAKE	44-32.30 N 110-47.02 W		0020367
TETON	LOWER GEYSER BASIN - FIREHOLE POOL	44-32.30 N 110-46.98 W		0020369 90.5
TETON	LOWER GEYSER BASIN - FIREHOLE POOL	44-32.30 N 110-46.98 W		0020368
TETON	LOWER GEYSER BASIN - FIREHOLE POOL	44-32.30 N 110-46.98 W		0020370 91.
TETON	LOWER GEYSER BASIN - FISSURE GROUP - EBONY SPR	44-31.4 N 110-47.7 W		0020365
TETON	LOWER GEYSER BASIN - FOUNTAIN GROUP - FOUNTAIN	44-32.6 N 110-48.4 W		0020364
TETON	LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIA	44-31.6 N 110-47.5 W		0020363 84.0
TETON	LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIA	44-31.6 N 110-47.5 W		0020362
TETON	LOWER GEYSER BASIN - IMPERIAL GEYSER	44-31.47 N 110-52.32 W		0020358
TETON	LOWER GEYSER BASIN - IMPERIAL GEYSER	44-31.47 N 110-52.32 W		0020359 89.
TETON	LOWER GEYSER BASIN - KALEIDOSCOPE GROUP - UNNAM	44-31.5 N 110-48.5 W		0020366
TETON	LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	44-34.01 N 110-48.23 W		0020383
TETON	LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	44-34.00 N 110-48.23 W		0020382 29.5
TETON	LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	44-34.00 N 110-48.22 W		0020386 75.
TETON	LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	44-34.00 N 110-48.25 W		0020385 75.
TETON	LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	44-34.00 N 110-48.23 W		0020384 29.
TETON	LOWER GEYSER BASIN - MOUND SPRING	44-33.52 N 110-51.42 W		0020400 94.
TETON	LOWER GEYSER BASIN - QUEEN'S LAUNDRY	44-33.47 N 110-52.10 W		0020392
TETON	LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPR	44-33.43 N 110-51.45 W		0020381 63.
TETON	LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPR	44-33.43 N 110-51.45 W		0020380 64.
TETON	LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE	44-33.18 N 110-49.51 W		0020377 94.5
TETON	LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE	44-33.18 N 110-49.51 W		0020376
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL CONE	44-33.43 N 110-51.45 W		0020389
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL	44-33.43 N 110-51.45 W		0020391 93.
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL	44-33.43 N 110-51.45 W		0020390 93.5
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S L	44-33.47 N 110-52.10 W		0020393 89.5
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED S	44-33.45 N 110-52.10 W		0020395 69.5
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S L	44-33.47 N 110-52.10 W		0020394 86.
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - MOUND SPR	44-33.52 N 110-51.42 W		0020398 92.
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - FLAT CONE	44-34.02 N 110-51.52 W		0020397
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - FLAT CONE	44-34.05 N 110-51.48 W		

TETON	LOWER GEYSER BASIN - SENTINEL GROUP - ROSETTE G	44-34.08 N	110-51.53 W	0020396
TETON	LOWER GEYSER BASIN - SURPRISE POOL	44-32.00 N	110-47.57 W	0020387
TETON	LOWER GEYSER BASIN - UNNAMED MUD POOL	44-32.	N 110-53.	0020361
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-32.	N 110-53.	0020388
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-32.2	N 110-47.30 W	0020375
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-31.58	N 110-47.48 W	0020374
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-32.29	N 110-46.57 W	0020371
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-32.	N 110-47.	0020373
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-32.	N 110-47.	0020372
TETON	LOWER GEYSER BASIN - UNNAMED STEAM VENT	44-31.	N 110-52.	0020357
TETON	MIDWAY GEYSER BASIN - EXCELSIOR GEYSER	44-31.23	N 110-50.08 W	0020343
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.33	N 110-50.53 W	0020356
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.18	N 110-51.25 W	0020352
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.33	N 110-50.53 W	0020355
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.15	N 110-51.10 W	0020354
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.18	N 110-51.27 W	0020353
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.18	N 110-51.25 W	0020351
TETON	MIDWAY GEYSER BASIN - FLOOD GEYSER	44-31.	N 110-50.	0020342
TETON	MIDWAY GEYSER BASIN - FLOOD GEYSER	44-31.	N 110-50.	0020341 R 92.5
TETON	MIDWAY GEYSER BASIN - INDIGO SPRING	44-31.2	N 110-50.0 W	0020344
TETON	MIDWAY GEYSER BASIN - PRISMATIC LAKE	44-31.20	N 110-50.13 W	0020345
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	44-30.58	N 110-49.18 W	0020347
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	44-30.50	N 110-48.42 W	0020348
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	44-30.49	N 110-48.42 W	0020350
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	44-30.50	N 110-48.42 W	0020349
TETON	MIDWAY GEYSER BASIN - UNNAMED CONE	44-31.	N 110-50.	0020346
TETON	MIDWAY GEYSER BASIN - UNNAMED SPRING	44-30.57	N 110-49.50 W	0020339
TETON	NORTH BUFFALO FORK SPRINGS - GROUP 1	43-54.40	N 110-11.70 W	45N 111W 32
TETON	NORTH BUFFALO FORK SPRINGS - GROUP 2	43-54.40	N 110-11.70 W	45N 111W 32
TETON	ORANGE GROUP - UNNAMED SPRING	44-27.77	N 110-50.75 W	0020387
TETON	PIPELINE CREEK SPRING	44-27.68	N 110-50.00 W	0020307
TETON	POTTS HOT SPRING BASIN - UNNAMED GEYSER	44-26.4	N 110-34.5 W	0020486
TETON	POTTS HOT SPRING BASIN - UNNAMED SPRING	44-26.4	N 110-34.5 W	0020487
TETON	SHOSHONE GEYSER BASIN - BLUE GLASS SPRING	44-21.1	N 110-48.0 W	0020474
TETON	SHOSHONE GEYSER BASIN - MINUTE MAN GEYSER	44-21.18	N 110-47.54 W	0020478
TETON	SHOSHONE GEYSER BASIN - TAURUS GEYSER	44-21.12	N 110-48.03 W	0020475
TETON	SHOSHONE GEYSER BASIN - UNION GEYSER	44-20.48	N 110-47.55 W	0020477
TETON	SHOSHONE GEYSER BASIN - UNNAMED SPRING	44-21.	N 110-48. W	0020476
TETON	TERACE SPRING	44-39.	N 110-50.45 W	0020402
TETON	TERACE SPRING	44-39.00	N 110-50.45 W	0020401
TETON	TETON VALLEY WARM SPRINGS	43-37.43	N 110-36.37 W	42N 115W 11
TETON	UNNAMED SPRING	43-37.	N 110-50.	0020340
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.43	N 110-50.00 W	0020254
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.	N 110-49.45 W	0020304
TETON	UPPER GEYSER BASIN - ARTEMESIA GEYSER	44-27.43	N 110-50.00 W	0020257
TETON	UPPER GEYSER BASIN - ARTEMESIA GEYSER	44-27.	N 110-50.00 W	0020256
TETON	UPPER GEYSER BASIN - BEEHIVE GEYSER	44-27.43	N 110-50.00 W	0020255
TETON	UPPER GEYSER BASIN - BENCH SPRING	44-27.73	N 110-51.35 W	0020320
TETON	UPPER GEYSER BASIN - BLACK SAND POOL	44-27.43	N 110-50.00 W	0020293
TETON	UPPER GEYSER BASIN - BOTTOMLESS PIT	44-27.	N 110-50.00 W	0020267
TETON	UPPER GEYSER BASIN - CALTHOS SPRING	44-27.	N 110-50.00 W	0020338
TETON	UPPER GEYSER BASIN - CASTLE GEYSER	44-27.5	N 110-50.6 W	0020286
TETON	UPPER GEYSER BASIN - CHINAMAN SPRING	44-27.43	N 110-50.00 W	0020268
TETON	UPPER GEYSER BASIN - CHINAMAN SPRING	44-27.43	N 110-50.00 W	0020269

TETON	UPPER GEYSER BASIN - CLIFF GEYSER	44-28.50 N 110-50.00 W	0020337	89.6
TETON	UPPER GEYSER BASIN - DAISY GEYSER	44-28.50 N 110-50.00 W	0020277	89.
TETON	UPPER GEYSER BASIN - DAISY SPRING	44-27.4 N 110-50.0 W	0020276	88.6
TETON	UPPER GEYSER BASIN - EAR SPRING	44-27.4 N 110-50.0 W	0020251	93.
TETON	UPPER GEYSER BASIN - ECONOMIC GEYSER	44-28.5 N 110-50.0 W	0020290	83.7
TETON	UPPER GEYSER BASIN - EMERALD POOL	44-28.5 N 110-50.0 W	0020291	63.
TETON	UPPER GEYSER BASIN - GIANT GEYSER	44-27.28 N 110-51.13 W	0020297	70.
TETON	UPPER GEYSER BASIN - GIANTESS GEYSER	44-27.7 N 110-49.5 W	0020324	94.3
TETON	UPPER GEYSER BASIN - GRAND GEYSER	44-28.05 N 110-51.52 W	0020249	94.1
TETON	UPPER GEYSER BASIN - HILLSIDE NO. 1	44-28.50 N 110-50.00 W	0020280	90.8
TETON	UPPER GEYSER BASIN - IRON SPRING	44-28.5 N 110-50.0 W	0020284	93.7
TETON	UPPER GEYSER BASIN - JEWEL GEYSER	44-28.5 N 110-50.0 W	0020285	88.
TETON	UPPER GEYSER BASIN - JEWEL GEYSER	44-28.05 N 110-50.32 W	0020288	79.
TETON	UPPER GEYSER BASIN - LIONESS GEYSER	44-27.63 N 110-49.38 W	0020264	89.6
TETON	UPPER GEYSER BASIN - MORNING GLORY POOL	44-27.98 N 110-50.42 W	0020280	90.8
TETON	UPPER GEYSER BASIN - OBLONG GEYSER	44-28.42 N 110-51.45 W	0020281	93.6
TETON	UPPER GEYSER BASIN - OLD FAITHFUL GEYSER	44-28.42 N 110-51.45 W	0020319	83.
TETON	UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM	44-28.25 N 110-51.95 W	0020274	83.
TETON	UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM	44-28.25 N 110-51.95 W	0020273	92.8
TETON	UPPER GEYSER BASIN - PUNCH BOWL SPRING	44-28.48 N 110-51.15 W	0020258	94.5
TETON	UPPER GEYSER BASIN - PUNCHBOWL SPRING	44-28.48 N 110-51.15 W	0020230	89.6
TETON	UPPER GEYSER BASIN - RIVERSIDE GEYSER	44-28.48 N 110-51.15 W	0020334	93.5
TETON	UPPER GEYSER BASIN - SAPPHIRE SPRING	44-28.48 N 110-51.15 W	0020321	92.5
TETON	UPPER GEYSER BASIN - SAMMILL GEYSER	44-28.48 N 110-51.15 W	0020329	93.5
TETON	UPPER GEYSER BASIN - SENTINEL SPRING	44-28.48 N 110-51.15 W	0020336	93.5
TETON	UPPER GEYSER BASIN - SOLITARY SPRING	44-27.43 N 110-50.00 W	0020277	92.2
TETON	UPPER GEYSER BASIN - SPASMODIC GEYSER	44-28.5 N 110-50.0 W	0020278	90.5
TETON	UPPER GEYSER BASIN - SPLENDID GEYSER	44-27.43 N 110-50.00 W	0020279	90.5
TETON	UPPER GEYSER BASIN - SPOON GEYSER	44-27.7 N 110-51.3 W	0020327	93.5
TETON	UPPER GEYSER BASIN - SPOUTER SPRING	44-28.50 N 110-50.00 W	0020294	92.5
TETON	UPPER GEYSER BASIN - SULFIDE SPRING	44-27.43 N 110-50.00 W	0020283	77.
TETON	UPPER GEYSER BASIN - TEAKETTLE SPRING	44-27.43 N 110-50.00 W	0020271	92.5
TETON	UPPER GEYSER BASIN - THREE SISTERS SPRING	44-28.5 N 110-50.0 W	0020278	90.5
TETON	UPPER GEYSER BASIN - THREE SISTERS SPRING	44-27.58 N 110-49.07 W	0020279	90.5
TETON	UPPER GEYSER BASIN - TOPAZ SPRING	44-27.43 N 110-50.00 W	0020270	94.5
TETON	UPPER GEYSER BASIN - TORTOISE SHELL SPRING	44-27.03 N 110-50.33 W	0020282	94.5
TETON	UPPER GEYSER BASIN - UNNAMED DRILL HOLE	44-27.43 N 110-50.00 W	0020300	55.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.43 N 110-50.00 W	0020299	63.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.35 N 110-49.37 W	0020305	81.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.58 N 110-49.07 W	0020303	90.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.20 N 110-50.45 W	0020301	81.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.0 N 110-50.0 W	0020312	80.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.35 N 110-49.37 W	0020306	63.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.0 N 110-50.0 W	0020310	71.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.50 N 110-50.00 W	0020288	87.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.50 N 110-50.00 W	0020292	80.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.00 N 110-50.00 W	0020302	80.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.20 N 110-50.45 W	0020313	91.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.77 N 110-49.20 W	0020311	75.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.50 N 110-50.00 W	0020289	91.

TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.25 N 110-51.95 W	84.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.53 N 110-49.46 W	0020275
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.35 N 110-49.37 W	0020317
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.67 N 110-49.63 W	0020316
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.53 N 110-49.45 W	0020315
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.4 N 110-51.53 W	0020260
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.3 N 110-50.00 W	0020253
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.4 N 110-50.0 W	0020252
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.7 N 110-49.5 W	0020250
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.4 N 110-51.52 W	0020261
TETON	UPPER GEYSER BASIN - WEST SPRING	44-28.43 N 110-51.53 W	0020259
TETON	UPPER GEYSER BASIN - WITCHES CAULDRON		0020331
TETON	WEST THUMB GEYSER BASIN - YELLOW BELL SPRING	44-25. N 110-34. W	93.5
TETON	WEST THUMB GEYSER BASIN - ABYSS POOL	44-25. N 110-34. W	0020326
TETON	WEST THUMB GEYSER BASIN - BLACK POOL	44-25. N 110-34. W	0020482
TETON	WEST THUMB GEYSER BASIN - EPHEDRA GEYSER	44-24. N 110-34. W	0020483
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	44-24. N 110-34. W	0020485
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	44-25. N 110-34. W	0020484
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	44-25. N 110-34.2 W	0020481
TETON	WEST THUMB GEYSER BASIN - BOILING SPRING	44-27.4 N 110-50.0 W	0020480
TETON	YELLOWSTONE - EAR SPRING	44-31.23 N 110-50.08 W	0020503
TETON	YELLOWSTONE - EXCELSIOR SPRING	44-32.30 N 110-47.02 W	0020501
TETON	YELLOWSTONE - FIREHOLE LAKE (LOWER)	44-28.2 N 110-51.5 W	0020502
TETON	YELLOWSTONE - HILLSIDE (UPPER)		84.5
TETON	YELLOWSTONE - LITTLE WHIRLING GEYSER		0020502
TETON	YELLOWSTONE - NEAR CLEPSEDA GEYSER		0020506
TETON	YELLOWSTONE - QO CALIENTE SPRING (RIVER GROUP)	44-33.18 N 110-49.51 W	0020507
TETON	YELLOWSTONE - RUSTIC GEYSER		0020505
TETON	YELLOWSTONE - SAPPHIRE SPRING	44-28.48 N 110-51.15 W	0020509
TETON	YELLOWSTONE - SHORT SPRING		0020508
TETON	YELLOWSTONE - SPIKE GEYSER		0075094
TETON	YELLOWSTONE - SPRING 192		0075084
TETON	YELLOWSTONE - TERRACE		0075080
TETON	YELLOWSTONE - UPPER GEYSER BASIN - UNNAMED SPRINGER	44-39.00 N 110-50.45 W	0020308
TETON (?)	YELLOWSTONE - PERPETUAL SPOUTER	44-28.5 N 110-50.0 W	0075078

APPENDIX B

Index to GEOTHERM sample file for the state of Wyoming sorted by county, township (TNS), range (RNG), and section (Sect.) Also given are the name of source, GEOTHERM record identifier (I.D.), and temperature (Temp. °C). See Table 1 for explanation of alphabetic qualifiers proceeding temperature.

<u>County</u>	<u>TNS</u>	<u>RNG</u>	<u>Sect.</u>	<u>Name of Source</u>	<u>I.D.</u>	<u>Temp.</u>
BIG HORN	54N	094W	35	SHEEP MOUNTAIN SPRINGS	0075001	21.
BIG HORN	55N	094W	17	LITTLE SHEEP MOUNTAIN SPRING	0075000	20.
CARBON	17N	084W	13	SARATOGA HOT SPRINGS, HOBO POOL	0075002	Q 48.0
CARBON	17N	084W	13	SARATOGA HOT SPRINGS, HOBO POOL	0075006	Q 48.
CARBON	17N	084W	13	SARATOGA HOT SPRINGS, HOBO POOL	0075005	49.
CARBON	17N	084W	13	SARATOGA HOT SPRINGS, HOBO POOL	0075004	Q 48.
CARBON	17N	084W	13	SARATOGA HOT SPRINGS, HOBO POOL	0075003	Q 48.
CONVERSE	31N	071W	08	DOUGLAS WARM SPRING	0075007	30.0
FREMONT	01S	001W	02	FORT WASHAKIE HOT SPRINGS	0075010	46.5
FREMONT	01S	001W	02	FORT WASHAKIE HOT SPRINGS	0075009	44.0
FREMONT	01S	001W	02	FORT WASHAKIE HOT SPRINGS	0075011	44.5
FREMONT	29N	095W	15	SWEETWATER STATION SPRING NO. 1	0075017	30.0
FREMONT	29N	095W	15	SWEETWATER STATION SPRING NO. 2	0075019	Q 31.5
FREMONT	29N	095W	15	SWEETWATER STATION SPRING NO. 2	0075018	31.5
FREMONT	33N	094W	26	CONANT CREEK SPRINGS	0075008	16.0
FREMONT	41N	106W	29	JAKEYS FORK SPRING	0075012	20.0
FREMONT	41N	107W	14	LITTLE WARM SPRING	0075014	Q 25.
FREMONT	41N	107W	14	LITTLE WARM SPRING	0075013	25.0
FREMONT	42N	107W	32	WARM SPRING CREEK SPRINGS	0075016	Q 29.
FREMONT	42N	107W	32	WARM SPRING CREEK SPRINGS	0075015	29.0
HOT SPRINGS	42N	095W	25	WIND RIVER CANYON SPRING	0075037	Q 22.
HOT SPRINGS	42N	095W	25	WIND RIVER CANYON SPRING	0075036	22.0
HOT SPRINGS	43N	094W	25	MCCARTHY WELL	0075024	54.0
HOT SPRINGS	43N	094W	30	WHITE SULPHUR SPRING	0075027	Q 53.
HOT SPRINGS	43N	094W	30	WHITE SULPHUR SPRING	0075026	53.0
HOT SPRINGS	43N	094W	31	BIG SPRING	0075035	Q 56.
HOT SPRINGS	43N	094W	31	BIG SPRING	0075034	Q 56.
HOT SPRINGS	43N	094W	31	BIG SPRING	0075033	Q 56.
HOT SPRINGS	43N	094W	31	BIG SPRING	0075032	Q 56.
HOT SPRINGS	43N	094W	31	BIG SPRING	0075031	Q 56.
HOT SPRINGS	43N	094W	31	BIG SPRING	0075030	56.0
HOT SPRINGS	43N	095W	24	MAYTAG WELL	0075021	54.0
HOT SPRINGS	43N	095W	24	VAN NORMAN WELL	0075020	51.0
HOT SPRINGS	43N	095W	25	SACAJAWEA WELL	0075023	Q 52.
HOT SPRINGS	43N	095W	25	SACAJAWEA WELL	0075022	52.0
HOT SPRINGS	43N	095W	25	BATHTUB SPRING	0075025	53.0
HOT SPRINGS	43N	095W	36	PILING SPRING	0075028	35.0
HOT SPRINGS	43N	095W	36	BLACK SULPHUR SPRING	0075029	Q 55.
LINCOLN				AUBURN AREA	0000779	16.0
LINCOLN	33N	119W	23	AUBURN HOT SPRINGS	0075041	Q 62.0
LINCOLN	33N	119W	23	AUBURN HOT SPRINGS	0075040	Q 16.0
LINCOLN	33N	119W	23	AUBURN HOT SPRINGS	0075039	Q 62.0
LINCOLN	33N	119W	23	AUBURN HOT SPRINGS	0075038	Q 62.0
LINCOLN	33N	119W	26	JOHNSON SPRINGS	0075042	46.0
NATRONA	30N	083W	25	ALCOVA HOT SPRINGS	0075043	54.0
NATRONA	30N	083W	25	ALCOVA HOT SPRINGS	0075044	59.0

NATRONA 32N 086W	35	HORSE CREEK SPRINGS	0075045	23.5
PARK		YELLOWSTONE - CALCITE SPRINGS	0020504	
PARK		YELLOWSTONE - CALCITE SPRINGS	0020502	
PARK		YELLOWSTONE - NEW HIGHLAND	0075079	73.5
PARK		MAMMOTH HOT SPRINGS - HYMEN TERRACE	0020465	70.5
PARK		NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 70	0020427	
PARK		NORRIS GEYSER BASIN - SPRING NO. 61	0020417	
PARK		NORRIS GEYSER BASIN - SPRING NO. 23	0020413	
PARK		NORRIS GEYSER BASIN - SPRING NO. 21	0020412	
PARK		NORRIS GEYSER BASIN - SPRING NO. 19	0020411	
PARK		NORRIS GEYSER BASIN - SPRING NO. 7	0020407	
PARK		NORRIS GEYSER BASIN - SPRING NO. 6	0020406	
PARK		NORRIS GEYSER BASIN - SPRING NO. 4	0020404	
PARK		YELLOWSTONE - DEVIL'S INKPOT	0020493	81.5
PARK		YELLOWSTONE - PORK CHOP SPRING	0075093	71.
PARK		YELLOWSTONE - UNNAMED SPRING	0020508	
PARK		YELLOWSTONE - CHOCOLATE POTS	0020507	52.
PARK		YELLOWSTONE - CHOCOLATE POTS	0020506	51.
PARK		YELLOWSTONE - CALCITE NO. 2	0020505	89.4
PARK		YELLOWSTONE - CALCITE NO. 1	0020503	92.5
PARK		YELLOWSTONE - SULFUR POOL	0020501	
PARK		YELLOWSTONE - MUD VOLCANO	0020500	85.5
PARK		YELLOWSTONE - UNNAMED SPRING	0020499	86.1
PARK		YELLOWSTONE - UNNAMED SPRING	0020498	88.8
PARK		YELLOWSTONE - UNNAMED SPRING	0020497	88.
PARK		YELLOWSTONE - UNNAMED SPRING	0020496	
PARK		YELLOWSTONE - UNNAMED SPRING	0020495	
PARK		YELLOWSTONE - DEVIL'S INKPOT	0020494	
PARK		YELLOWSTONE - DEVIL'S INKPOT	0020492	
PARK		YELLOWSTONE - UNNAMED SPRING	0020491	87.
PARK		YELLOWSTONE - UNNAMED SPRING	0020490	70.6
PARK		YELLOWSTONE - UNNAMED SPRING	0020489	85.
PARK		YELLOWSTONE - UNNAMED SPRING	0020488	79.8
PARK		MAMMOTH HOT SPRINGS - MINERVA SPRINGS	0020473	75.
PARK		MAMMOTH HOT SPRINGS - NEW HIGHLAND TERRACE	0020472	74.
PARK		MAMMOTH HOT SPRINGS - CUPID SPRING	0020471	71.
PARK		MAMMOTH HOT SPRINGS - CAVERN TERRACE	0020470	66.4
PARK		MAMMOTH HOT SPRINGS - PALETTE TERRACE	0020469	
PARK		MAMMOTH HOT SPRINGS - UNNAMED SPRING	0020468	
PARK		MAMMOTH HOT SPRINGS - JUPITER TERRACE	0020467	71.
PARK		MAMMOTH HOT SPRINGS - MAIN TERRACE	0020466	73.
PARK		MAMMOTH HOT SPRINGS - ANGEL TERRACE	0020464	
PARK		MAMMOTH HOT SPRINGS - UNNAMED SPRING	0020463	
PARK		MAMMOTH HOT SPRINGS - UNNAMED SPRING	0020462	
PARK		MAMMOTH HOT SPRINGS - UNNAMED SPRING	0020461	
PARK		MAMMOTH HOT SPRINGS - CLEOPATRA SPRING	0020460	
PARK		MAMMOTH HOT SPRINGS - CLEOPATRA SPRING	0020459	
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020458	80.
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020457	
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020456	
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020455	85.
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020454	73.
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020453	90.
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020452	89.
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020451	90.

PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020450	89.
PARK		NORRIS GEYSER BASIN - BLACK HERON CAULDRON	0020449	93.
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020448	91.
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020447	70.
PARK		NORRIS GEYSER BASIN - BATHTUB SPRING	0020446	93.
PARK		NORRIS GEYSER BASIN - "BATH-TUB" SPRING	0020445	
PARK		NORRIS GEYSER BASIN - "BATH-TUB" SPRING	0020444	
PARK		NORRIS GEYSER BASIN - GREEN DRAGON SPRING	0020442	84.
PARK		NORRIS GEYSER BASIN - PEARL GEYSER	0020441	85.
PARK		NORRIS GEYSER BASIN - EMERALD SPRING	0020440	88.
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020439	90.6
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020438	92.
PARK		NORRIS GEYSER BASIN - UNNAMED STEAM VENT	0020437	
PARK		NORRIS GEYSER BASIN - SPRING NO. 25	0020436	
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020435	92.
PARK		NORRIS GEYSER BASIN - CONGRESS POOL	0020434	
PARK		NORRIS GEYSER BASIN - UPPER GREEN DRAGON SPRING	0020443	94.
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020433	79.
PARK		NORRIS GEYSER BASIN - VERMILLION POOL	0020432	94.
PARK		NORRIS GEYSER BASIN - CINDER POOL (NO. 17)	0020431	
PARK		NORRIS GEYSER BASIN - GABLE SPRING (NO. 32)	0020430	
PARK		NORRIS GEYSER BASIN - UNNAMED SPRING	0020429	
PARK		NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 24	0020428	
PARK		NORRIS GEYSER BASIN - BLACK GROWLER	0020426	
PARK		NORRIS GEYSER BASIN - BLACK GROWLER	0020425	
PARK		NORRIS GEYSER BASIN - SPRING NO. 20	0020424	
PARK		NORRIS GEYSER BASIN - GEYSER NO. 27	0020423	
PARK		NORRIS GEYSER BASIN - ECHINUS GEYSER	0020422	
PARK		NORRIS GEYSER BASIN - CORAL SPRING	0020421	
PARK		NORRIS GEYSER BASIN - IRIS SPRING (NO. 71)	0020420	
PARK		NORRIS GEYSER BASIN - SPRING NO. 68	0020419	
PARK		NORRIS GEYSER BASIN - SPRING NO. 62	0020418	
PARK		YELLOWSTONE - NORRIS GEYSER BASIN - SPRING NO.	0020416	
PARK		NORRIS GEYSER BASIN - SPRING NO. 33	0020415	
PARK		NORRIS GEYSER BASIN - SPRING NO. 30	0020414	
PARK		NORRIS GEYSER BASIN - SPRING NO. 18	0020410	
PARK		NORRIS GEYSER BASIN - SPRING NO. 15	0020409	
PARK		NORRIS GEYSER BASIN - SPRING NO. 9	0020408	
PARK		NORRIS GEYSER BASIN - SPRING NO. 5	0020405	
PARK		NORRIS GEYSER BASIN - SPRING NO. 1	0020403	
PARK	52N 102W	03 DE MARIS HOT SPRINGS	0075047	36.0
PARK	52N 102W	03 DE MARIS HOT SPRINGS	0075054	Q 27.5
PARK	52N 102W	03 DE MARIS HOT SPRINGS	0075050	Q 24.
PARK	52N 102W	03 DE MARIS HOT SPRINGS	0075048	Q 37.0
PARK	52N 102W	03 DE MARIS HOT SPRINGS	0075049	27.0
PARK	52N 102W	03 DE MARIS HOT SPRINGS	0075053	Q 27.0
PARK	52N 102W	03 DE MARIS HOT SPRINGS	0075052	Q 27.0
PARK	52N 102W	03 DE MARIS HOT SPRINGS	0075051	Q 28.0
PARK	52N 103W	12, BUFFALO BILL RESERVOIR SPRINGS	0075046	
PLATTE	26N 066W	04 IMMIGRANTS WASHTUB	0075056	Q 21.
PLATTE	26N 066W	04 IMMIGRANTS WASHTUB	0075055	Q 21.0
SUBLETTE	28N 115W	20 BIG FALL CREEK SPRINGS	0075062	16.0
SUBLETTE	32N 107W	16 STEELE HOT SPRINGS - SPRING 1	0075059	35.5
SUBLETTE	32N 107W	16 STEELE HOT SPRINGS - SPRING 1	0075060	Q 35.5
SUBLETTE	32N 107W	16 STEELE HOT SPRINGS - SPRING 2	0075061	39.0

SUBLETTE	38N	110W	02	KENDALL WARM SPRINGS	0075057	29.5
SUBLETTE	38N	110W	02	KENDALL WARM SPRINGS	0075058	Q 29.5
TETON				MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020351	92.
TETON				MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020353	93.
TETON				MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020354	82.0
TETON				MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020355	94.5
TETON				LOWER GEYSER BASIN - UNNAMED STEAM VENT	0020357	
TETON				LOWER GEYSER BASIN - IMPERIAL GEYSER	0020359	89.
TETON				LOWER GEYSER BASIN - IMPERIAL GEYSER	0020360	87.
TETON				LOWER GEYSER BASIN - UNNAMED MUD POT	0020361	61.
TETON				LOWER GEYSER BASIN - UNNAMED SPRING	0020374	88.5
TETON				LOWER GEYSER BASIN - UNNAMED SPRING	0020375	75.
TETON				YELLOWSTONE - TERRACE	0075080	66.
TETON				SHOSHONE GEYSER BASIN - UNION GEYSER	0020477	
TETON				UPPER GEYSER BASIN - UNNAMED SPRING	0020314	82.
TETON				UPPER GEYSER BASIN - UNNAMED SPRING	0020317	64.
TETON				UPPER GEYSER BASIN - UNNAMED SPRING	0020316	89.
TETON				UPPER GEYSER BASIN - UNNAMED SPRING	0020315	75.
TETON				UPPER GEYSER BASIN - EAR SPRING	0020251	93.
TETON				UPPER GEYSER BASIN - GIANTESS GEYSER	0020249	94.1
TETON				UPPER GEYSER BASIN - THREE SISTERS SPRING	0020278	90.5
TETON				UPPER GEYSER BASIN - PUNCHBOWL SPRING	0020273	92.8
TETON				UPPER GEYSER BASIN - TOPAZ SPRING	0020270	
TETON				UPPER GEYSER BASIN - CHINAMAN SPRING	0020268	93.5
TETON				UPPER GEYSER BASIN - BOTTOMLESS PIT	0020267	
TETON				HILLSIDE GROUP - ASTA SPRING (NO. 3)	0020262	
TETON				UPPER GEYSER BASIN - ARTEMISIA GEYSER	0020256	
TETON				UPPER GEYSER BASIN - ARTEMISIA GEYSER	0020255	
TETON				YELLOWSTONE - EXCELSIOR SPRING	0075089	76.
TETON				TERRACE SPRING	0020401	61.8
TETON				LOWER GEYSER BASIN - IMPERIAL GEYSER	0020358	
TETON				MIDWAY GEYSER BASIN - INDIGO SPRING	0020344	
TETON				MIDWAY GEYSER BASIN - EXCELSIOR GEYSER	0020343	91.
TETON				UPPER GEYSER BASIN - YELLOW BELL SPRING	0020326	
TETON				UPPER GEYSER BASIN - SOLITARY SPRING	0020321	92.5
TETON				UPPER GEYSER BASIN - CASTLE GEYSER	0020286	
TETON				YELLOWSTONE - SNORT SPRING	0075088	93.
TETON				YELLOWSTONE - OJO CALIENTE SPRING (RIVER GROUP)	0075087	95.
TETON				YELLOWSTONE - NEAR CLEPSEDRA GEYSER	0075086	92.
TETON				YELLOWSTONE - RUSTIC GEYSER	0075085	91.
TETON				YELLOWSTONE - SPRING 192	0075084	89.5
TETON				YELLOWSTONE - BOILING SPRING	0075083	94.
TETON				YELLOWSTONE - HILLSIDE (UPPER)	0075082	84.5
TETON				YELLOWSTONE - FIREHOLE LAKE (LOWER)	0075081	93.
TETON				LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	0020383	
TETON				LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	0020382	29.5
TETON				LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRI	0020381	63.
TETON				LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRI	0020380	64.
TETON				LOWER GEYSER BASIN - BATH SPRING	0020379	
TETON				LOWER GEYSER BASIN - BATH SPRING	0020378	
TETON				LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE	0020377	94.5
TETON				LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE	0020376	
TETON				LOWER GEYSER BASIN - UNNAMED SPRING	0020373	93.
TETON				LOWER GEYSER BASIN - UNNAMED SPRING	0020372	92.
TETON				LOWER GEYSER BASIN - UNNAMED SPRING	0020371	91.

TETON	LOWER GEYSER BASIN - FIREHOLE POOL	0020370	91.
TETON	LOWER GEYSER BASIN - FIREHOLE POOL	0020369	90.5
TETON	LOWER GEYSER BASIN - FIREHOLE POOL	0020368	
TETON	LOWER GEYSER BASIN - FIREHOLE LAKE	0020367	
TETON	LOWER GEYSER BASIN - KALEIDOSCOPE GROUP - UNNAM	0020366	
TETON	LOWER GEYSER BASIN - FISSURE GROUP - EBONY SPRI	0020365	
TETON	LOWER GEYSER BASIN - FOUNTAIN GROUP - FOUNTAIN	0020364	
TETON	LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIA	0020363	84.0
TETON	LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIA	0020362	
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020356	93.
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020352	74.
TETON	MIDWAY GEYSER BASIN - UNNAMED CONE	0020346	92.6
TETON	MIDWAY GEYSER BASIN - PRISMATIC LAKE	0020345	63.3
TETON	MIDWAY GEYSER BASIN - FLOOD GEYSER	0020341	R 92.5
TETON	MIDWAY GEYSER BASIN - UNNAMED SPRING	0020339	
TETON	UPPER GEYSER BASIN - CALTHOS SPRING	0020338	94.5
TETON	UPPER GEYSER BASIN - CLIFF GEYSER	0020337	89.6
TETON	UPPER GEYSER BASIN - SPLENDID GEYSER	0020336	93.5
TETON	UPPER GEYSER BASIN - OBLONG GEYSER	0020335	93.6
TETON	UPPER GEYSER BASIN - SENTINEL SPRING	0020334	93.5
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020333	92.5
TETON	UPPER GEYSER BASIN - GRAND GEYSER	0020332	79.
TETON	UPPER GEYSER BASIN - WITCHES CAULDRON	0020331	93.5
TETON	UPPER GEYSER BASIN - SAWMILL GEYSER	0020330	89.6
TETON	UPPER GEYSER BASIN - SPASMODIC GEYSER	0020329	93.5
TETON	UPPER GEYSER BASIN - LIONESS GEYSER	0020328	94.
TETON	UPPER GEYSER BASIN - SPONGE GEYSER	0020327	93.5
TETON	UPPER GEYSER BASIN - BEEHIVE GEYSER	0020325	92.5
TETON	UPPER GEYSER BASIN - GIANT GEYSER	0020324	94.3
TETON	UPPER GEYSER BASIN - RIVERSIDE GEYSER	0020323	93.5
TETON	UPPER GEYSER BASIN - TORTOISE SHELL SPRING	0020322	94.5
TETON	UPPER GEYSER BASIN - BENCH SPRING	0020320	83.7
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020312	
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020310	71.
TETON	YELLOWSTONE - UPPER GEYSER BASIN - UNNAMED SPRI	0020308	87.
TETON	PIPELINE CREEK SPRING	0020307	
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020306	63.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020305	81.
TETON	UPPER GEYERS BASIN - UNNAMED SPRING	0020304	
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020303	90.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020301	81.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020300	55.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020299	63.
TETON	UPPER GEYSER BASIN - MORNING GLORY POOL	0020298	77.
TETON	UPPER GEYSER BASIN - EMERALD POOL	0020297	70.
TETON	BLACK SAND BASIN - UNNAMED SPRING	0020296	88.
TETON	BLACK SAND BASIN - UNNAMED SPRING	0020295	
TETON	UPPER GEYSER BASIN - SPOUTER SPRING	0020294	92.5
TETON	UPPER GEYSER BASIN - BLACK SAND POOL	0020293	92.7
TETON	UPPER GEYSER BASIN - ECONOMIC GEYSER	0020290	83.7
TETON	UPPER GEYSER BASIN - JEWEL GEYSER	0020284	93.7
TETON	UPPER GEYSER BASIN - UNNAMED DRILL HOLE	0020282	
TETON	UPPER GEYSER BASIN - IRON SPRING	0020280	90.8
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	0020350	90.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020302	

TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	0020347	94.
TETON	MIDWAY GEYSER BASIN - FLOOD GEYSER	0020342	94.
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	0020348	84.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020309	80.
TETON	YELLOWSTONE - SPIKE GEYSER	0075094	93.5
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	0020349	82.
TETON	YELLOWSTONE - LITTLE WHIRLIGIG GEYSER	0075092	91.
TETON	UPPER GEYSER BASIN - SAPPHIRE SPRING	0020258	94.5
TETON	UPPER GEYSER BASIN - OLD FAITHFUL GEYSER	0020281	
TETON	UPPER GEYSER BASIN - TEAKETTLE SPRING	0020271	
TETON	UPPER GEYSER BASIN - HILLSIDE NO. 1	0020264	
TETON	HILLSIDE GROUP - ASTA SPRING (NO. 3)	0020263	
TETON	UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM	0020318	83.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020311	75.
TETON	YELLOWSTONE - EAR SPRING	0075091	95.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020313	91.
TETON	YELLOWSTONE - SAPPHIRE SPRING	0075090	95.
TETON	SHOSHONE GEYSER BASIN - BLUE GLASS SPRING	0020474	
TETON	JACKSON LAKE HOT SPRINGS	0075073	Q 72.0
TETON	POTTS HOT SPRING BASIN - UNNAMED SPRING	0020487	94.
TETON	POTTS HOT SPRING BASIN - UNNAMED GEYSER	0020486	95.
TETON	WEST THUMB GEYSER BASIN - EPHEDRA GEYSER	0020485	89.
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	0020484	84.1
TETON	WEST THUMB GEYSER BASIN - BLACK POOL	0020483	78.5
TETON	WEST THUMB GEYSER BASIN - ABYSS POOL	0020482	90.
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	0020481	
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	0020480	
TETON	HEART LAKE GEYSER BASIN - RUSTIC GROUP - UNNAME	0020479	
TETON	SHOSHONE GEYSER BASIN - MINUTE MAN GEYSER	0020478	
TETON	SHOSHONE GEYSER BASIN - UNNAMED SPRING	0020476	
TETON	SHOSHONE GEYSER BASIN - TAURUS GEYSER	0020475	
TETON	UNNAMED SPRING	0020340	94.
TETON	UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM	0020319	83.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020252	89.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020250	82.5
TETON	HILLSIDE GROUP - UNNAMED SPRING	0020266	65.
TETON	HILLSIDE GROUP - UNNAMED SPRING	0020265	84.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020261	76.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020260	80.
TETON	UPPER GEYSER BASIN - WEST SPRING	0020259	80.
TETON	UPPER GEYSER BASIN - ARTEMESIA GEYSER	0020257	87.
TETON	UPPER GEYERS BASIN - UNNAMED SPRING	0020254	68.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020253	84.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020292	
TETON	UPPER GEYSER BASIN - ECONOMIC GEYSER	0020291	63.
TETON	TERRACE SPRING	0020402	60.
TETON	LOWER GEYSER BASIN - MOUND SPRING	0020400	94.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020289	91.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020288	87.
TETON	ORANGE GROUP - UNNAMED SPRING	0020287	71.
TETON	UPPER GEYSER BASIN - JEWEL GEYSER	0020285	88.
TETON	UPPER GEYSER BASIN - SULFIDE SPRING	0020283	77.
TETON	UPPER GEYSER BASIN - THREE SISTERS SPRING	0020279	
TETON	UPPER GEYSER BASIN - DAISY GEYSER	0020277	89.
TETON	UPPER GEYSER BASIN - DAISY SPRING	0020276	88.6

TETON			UPPER GEYSER BASIN - UNNAMED SPRING	0020275	84.
TETON			UPPER GEYSER BASIN - PUNCH BOWL SPRING	0020274	83.
TETON			UPPER GEYSER BASIN - TEAKETTLE SPRING	0020272	92.
TETON			UPPER GEYSER BASIN - CHINAMAN SPRING	0020269	93.5
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - MOUND SPR	0020399	
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED S	0020398	92.
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - FLAT CONE	0020397	
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - ROSETTE G	0020396	
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED S	0020395	69.5
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S L	0020394	86.
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S L	0020393	89.5
TETON			LOWER GEYSER BASIN - QUEEN'S LAUNDRY	0020392	
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL	0020391	93.
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL	0020390	93.5
TETON			LOWER GEYSER BASIN - SENTINEL CONE	0020389	
TETON			LOWER GEYSER BASIN - UNNAMED SPRING	0020388	90.
TETON			LOWER GEYSER BASIN - SURPRISE POOL	0020387	85.
TETON			LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	0020386	75.
TETON			LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	0020385	75.
TETON			LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	0020384	29.
TETON	39N 113W 06		GRANITE FALLS HOT SPRINGS	0075066	45.0
TETON	39N 113W 06		GRANITE HOT SPRING	0075067	Q 41.0
TETON	39N 113W 06		GRANITE HOT SPRING	0075068	39.0
TETON	39N 116W 32		ASTORIA SPRINGS	0075064	37.0
TETON	41N 116W 02		ABERCROMBIE WARM SPRINGS	0075063	27.0
TETON	41N 117W 36		BOYLES HILL SPRINGS	0075065	30.0
TETON	42N 115W 02		KELLY WARM SPRING	0075074	27.0
TETON	42N 115W 11		TETON VALLEY WARM SPRINGS	0075077	18.0
TETON	45N 111W 32		NORTH BUFFALO FORK SPRINGS - GROUP 2	0075076	45.0
TETON	45N 111W 32		NORTH BUFFALO FORK SPRINGS - GROUP 1	0075075	35.5
TETON	48N 115W 20		HUCKLEBERRY HOT SPRINGS	0075069	Q 45.0
TETON	48N 115W 20		HUCKLEBERRY HOT SPRINGS	0075071	Q 61.0
TETON	48N 115W 20		HUCKLEBERRY HOT SPRINGS	0075070	Q 61.0
TETON	48N 115W 20		HUCKLEBERRY HOT SPRINGS	0075072	Q 71.0
TETON (?)			YELLOWSTONE - PERPETUAL SPOUTER	0075078	89.

APPENDIX C

Index to GEOTHERM sample file for the state of Wyoming sorted into one-degree blocks by latitude and longitude. Records are sorted by name of source within each one-degree block. Adjacent one-degree blocks which are published as a 1:250,000 map are combined under the appropriate map name. See Table 1 for explanation of alphabetic qualifiers preceding temperature. I.D. - GEOTHERM record identifier. Temp. - Temperature °C.

Latitude	Longitude	Name of Source	County	I.D.	Temp.
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COORDINATES NOT GIVEN BUT ALL RECORDS LIKELY TO BE IN ASHTON 1:250,000

LOWER GEYSER BASIN - UNNAMED SPRING		TETON	0020388	90.	
UPPER GEYSER BASIN - BEEHIVE GEYSER		TETON	0020325	92.5	
UPPER GEYSER BASIN - BENCH SPRING		TETON	0020320	83.7	
UPPER GEYSER BASIN - CALTHOS SPRING		TETON	0020338	94.5	
UPPER GEYSER BASIN - CLIFF GEYSER		TETON	0020337	89.6	
UPPER GEYSER BASIN - GIANT GEYSER		TETON	0020324	94.3	
UPPER GEYSER BASIN - GRAND GEYSER		TETON	0020332	79.	
UPPER GEYSER BASIN - LIONESS GEYSER		TETON	0020328	94.	
UPPER GEYSER BASIN - OBLONG GEYSER		TETON	0020335	93.6	
UPPER GEYSER BASIN - RIVERSIDE GEYSER		TETON	0020323	93.5	
UPPER GEYSER BASIN - SAWMILL GEYSER		TETON	0020330	89.6	
UPPER GEYSER BASIN - SENTINEL SPRING		TETON	0020334	93.5	
UPPER GEYSER BASIN - SOLITARY SPRING		TETON	0020321	92.5	
UPPER GEYSER BASIN - SPASHODIC GEYSER		TETON	0020329	93.5	
UPPER GEYSER BASIN - SPLENDID GEYSER		TETON	0020336	93.5	
UPPER GEYSER BASIN - SPONGE GEYSER		TETON	0020327	93.5	
UPPER GEYSER BASIN - TORTOISE SHELL SPRING		TETON	0020322	94.5	
UPPER GEYSER BASIN - UNNAMED SPRING		TETON	0020333	92.5	
UPPER GEYSER BASIN - WITCHES CAULDRON		TETON	0020331	93.5	
UPPER GEYSER BASIN - YELLOW BELL SPRING		TETON	0020326		
YELLOWSTONE - BOILING SPRING		TETON	0075083	94.	
YELLOWSTONE - LITTLE WHIRLIGIG GEYSER		TETON	0075092	91.	
YELLOWSTONE - NEAR CLEPSYDRA GEYSER		TETON	0075086	92.	
YELLOWSTONE - PERPETUAL SPOUTER		TETON	0075078	89.	
YELLOWSTONE - PORK CHOP SPRING		PARK	0075093	71.	
YELLOWSTONE - RUSTIC GEYSER		TETON	0075085	91.	
YELLOWSTONE - SNORT SPRING		TETON	0075088	93.	
YELLOWSTONE - SPIKE GEYSER		TETON	0075094	93.5	
YELLOWSTONE - SPRING 192		TETON	0075084	89.5	
YELLOWSTONE - UNNAMED SPRING		PARK	0020508		
RAWLINS 1:250,000					
41-27.00 N 106-48.40 W SARATOGA HOT SPRINGS, HOBOL POOL		CARBON	0075002	48.0	
41-27.00 N 106-48.40 W SARATOGA HOT SPRINGS, HOBOL POOL		CARBON	0075006	48.	
41-27.00 N 106-48.40 W SARATOGA HOT SPRINGS, HOBOL POOL		CARBON	0075003	48.	
41-27.00 N 106-48.40 W SARATOGA HOT SPRINGS, HOBOL POOL		CARBON	0075004	48.	
41-27.00 N 106-48.40 W SARATOGA HOT SPRINGS, HOBOL POOL		CARBON	0075005	49.	
TORRINGTON 1:250,000					
42-14.97 N 104-46.52 W IMMIGRANTS WASHTUB		PLATE	0075055	Q 21.0	

CASPER 1:250,000
442-14.97 N 104-46.82 W IMMIGRANTS WASHTUB
442-39.88 N 105-23.62 W DOUGLAS WARM SPRING
442-32.28 N 106-43.27 W ALCOVA HOT SPRINGS
442-32.28 N 106-43.27 W ALCOVA HOT SPRINGS
442-42.10 N 107-06.33 W HORSE CREEK SPRINGS

PLATTE CONVERSE 0075056 0 21.
0075007 30.0

CAPTION 1:250 000

LANDER 1:250,000
 442-32.28 N 106-43.27 W ALCova HOT SPRINGS
 442-32.28 N 106-43.27 W ALCova HOT SPRINGS
 442-42.10 N 107-06.33 W HORSE CREEK SPRINGS
 CONANT CREEK SPRINGGARDEN
 SWEETWATER STATION SWEETWATER STATION SWEETWATER STATION SWEETWATER STATION SWEETWATER STATION STEELE HOT SPRINGS STEELE HOT SPRINGS STEELE HOT SPRINGS

PRESTON 1.250 000

442-50-42 N 110-59-50 W AUBURN HOT SPRINGS
 442-23-92 N 110-30-68 W BIG FALL CREEK SPRINGS
 442-49-08 N 110-59-50 W JOHNSON SPRINGS
 442-49-50 N 111-00-50 W AUBURN AREA

THE BMOPOLIS 1 : 250 000

43-31.22 N 109-40.00 W LITTLE WARM SPRING	FREMONT	0075013 25.0
43-33.60 N 109-43.88 W WARM SPRING CREEK SPRINGS	FREMONT	0075015 29.0
43-33.60 N 109-43.88 W WARM SPRING CREEK SPRINGS	FREMONT	0075016 Q 29.
DRIGGS 1:250,000		
43-32.75 N 110-44.37 W ADERCRUMBIE WARM SPRINGS	TETON	0075063 27.0
43-38.00 N 110-46.48 W ASTORIA SPRINGS	TETON	0075064 37.0
43-28.30 N 110-50.08 W BOYLES HILL SPRINGS	TETON	0075065 30.0
43-21.90 N 110-26.57 W GRANITE FALLS HOT SPRINGS	TETON	0075066 45.0
43-22.20 N 110-26.68 W GRANITE HOT SPRING	TETON	0075067 Q 41.0
43-22.20 N 110-26.68 W GRANITE HOT SPRING	TETON	0075068 39.0
43-57.50 N 110-41.75 W JACKSON LAKE HOT SPRINGS	TETON	0075073 Q 72.0
43-38.37 N 110-36.92 W KELLY WARM SPRING	TETON	0075074 27.0
43-16.93 N 110-01.13 W KENDALL WARM SPRINGS	SUBLETTE	0075058 Q 29.5
43-16.93 N 110-01.13 W KENDALL WARM SPRINGS	SUBLETTE	0075057 29.5
43-54.40 N 110-11.70 W NORTH BUFFALO FORK SPRINGS - GROUP 1	TETON	0075075 35.5
43-54.40 N 110-11.70 W NORTH BUFFALO FORK SPRINGS - GROUP 2	TETON	0075076 45.0
43-37.43 N 110-36.37 W TETON VALLEY WARM SPRINGS	TETON	0075077 18.0
CODY 1:250,000		
44-44.90 N 108-11.35 W LITTLE SHEEP MOUNTAIN SPRING	BIG HORN	0075000 20.
44-36.45 N 108-08.13 W SHEEP MOUNTAIN SPRINGS	BIG HORN	0075001 21.
44-28.50 N 109-12.25 W BUFFALO BILL RESERVOIR SPRINGS	PARK	0075046
44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS	PARK	0075050 Q 24.
44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS	PARK	0075048 Q 37.0
44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS	PARK	0075047 36.0
44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS	PARK	0075054 Q 27.5
44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS	PARK	0075049 27.0
44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS	PARK	0075053 Q 27.0
44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS	PARK	0075052 Q 27.0
44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS	PARK	0075051 Q 28.0
ASHTON 1:250,000		
44-27.67 N 110-51.65 W BLACK SAND BASIN - UNNAMED SPRING	TETON	0020296 88.
44-27.7 N 110-51.3 W BLACK SAND BASIN - UNNAMED SPRING	TETON	0020295
44-6.55 N 110-30.20 W HEART LAKE GEYSER BASIN - RUSTIC GROUP - UNNAME	TETON	0020479
44-28.20 N 110-51.52 W HILLSIDE GROUP - ASTA SPRING (NO. 3)	TETON	0020263
44-28.20 N 110-51.52 W HILLSIDE GROUP - ASTA SPRING (NO. 3)	TETON	0020262
44-28.20 N 110-51.52 W HILLSIDE GROUP - UNNAMED SPRING	TETON	0020266 65.
44-28.20 N 110-51.52 W HILLSIDE GROUP - UNNAMED SPRING	TETON	0020265 84.
44-06.88 N 110-41.18 W HUCKLEBERRY HOT SPRINGS	TETON	0075071 Q 61.0
44-06.88 N 110-41.18 W HUCKLEBERRY HOT SPRINGS	TETON	0075070 Q 61.0
44-06.88 N 110-41.18 W HUCKLEBERRY HOT SPRINGS	TETON	0075072 Q 71.0
44-06.88 N 110-41.18 W HUCKLEBERRY HOT SPRINGS	TETON	0075069 Q 45.0
44-31.47 N 110-52.32 W LOWER GEYSER BASIN - IMPERIAL GEYSER	TETON	0020360 87.
44-32.2 N 110-50. W LOWER GEYSER BASIN - BATH SPRING	TETON	0020379
44-33.2 N 110-50. W LOWER GEYSER BASIN - BATH SPRING	TETON	0020378
44-32.30 N 110-47.02 W LOWER GEYSER BASIN - FIREHOLE LAKE	TETON	0020367
44-32.30 N 110-46.98 W LOWER GEYSER BASIN - FIREHOLE POOL	TETON	0020369 90.5
44-32.30 N 110-46.98 W LOWER GEYSER BASIN - FIREHOLE POOL	TETON	0020368
44-32.30 N 110-46.98 W LOWER GEYSER BASIN - FIREHOLE POOL	TETON	0020370 91.

44-31.4	N	110-47.7	W	LOWER GEYSER BASIN	-	FISSURE GROUP - EBONY SPRING	TETON	0020365
44-32.6	N	110-48.4	W	LOWER GEYSER BASIN	-	FOUNTAIN GROUP - FOUNTAIN	TETON	0020364
44-31.6	N	110-47.5	W	LOWER GEYSER BASIN	-	GREAT FOUNTAIN GROUP - DIA	TETON	0020363
44-31.6	N	110-47.5	W	LOWER GEYSER BASIN	-	GREAT FOUNTAIN GROUP - DIA	TETON	0020362
44-31.47	N	110-52.32	W	LOWER GEYSER BASIN	-	IMPERIAL GEYSER	TETON	0020358
44-31.47	N	110-52.32	W	LOWER GEYSER BASIN	-	IMPERIAL GEYSER	TETON	0020359
44-31.5	N	110-46.5	W	LOWER GEYSER BASIN	-	KALEIDOSCOPE GROUP - UNNAM	TETON	0020366
44-34.01	N	110-48.23	W	LOWER GEYSER BASIN	-	MORNING MIST SPRINGS - UNN	TETON	0020383
44-34.00	N	110-48.23	W	LOWER GEYSER BASIN	-	MORNING MIST SPRINGS - UNN	TETON	0020382
44-34.00	N	110-48.22	W	LOWER GEYSER BASIN	-	MORNING MIST SPRINGS - UNN	TETON	0020386
44-34.00	N	110-48.25	W	LOWER GEYSER BASIN	-	MORNING MIST SPRINGS - UNN	TETON	0020385
44-34.00	N	110-48.23	W	LOWER GEYSER BASIN	-	MORNING MIST SPRINGS - UNN	TETON	0020384
44-33.52	N	110-51.42	W	LOWER GEYSER BASIN	-	MOUND SPRING	TETON	0020400
44-33.47	N	110-52.10	W	LOWER GEYSER BASIN	-	QUEEN'S LAUNDRY	TETON	0020392
44-33.	N	110-50.	W	LOWER GEYSER BASIN	-	RIVER GROUP - UNNAMED	SPRI	0020381
44-33.	N	110-50.	W	LOWER GEYSER BASIN	-	RIVER GROUP - UNNAMED	SPRI	0020380
44-33.18	N	110-49.51	W	LOWER GEYSER BASIN	-	RIVER GROUP - OJO CALIENTE	TETON	0020377
44-33.18	N	110-49.51	W	LOWER GEYSER BASIN	-	RIVER GROUP - OJO CALIENTE	TETON	0020376
44-33.43	N	110-51.45	W	LOWER GEYSER BASIN	-	SENTINEL CONE	TETON	0020389
44-33.43	N	110-51.45	W	LOWER GEYSER BASIN	-	SENTINEL GROUP - SENTINEL	TETON	0020391
44-33.43	N	110-51.45	W	LOWER GEYSER BASIN	-	SENTINEL GROUP - SENTINEL	TETON	0020390
44-33.47	N	110-52.10	W	LOWER GEYSER BASIN	-	SENTINEL GROUP - QUEEN'S L	TETON	0020395
44-33.47	N	110-52.10	W	LOWER GEYSER BASIN	-	SENTINEL GROUP - UNNAMED S	TETON	0020393
44-33.45	N	110-52.10	W	LOWER GEYSER BASIN	-	SENTINEL GROUP - UNNAMED S	TETON	0020394
44-33.47	N	110-52.10	W	LOWER GEYSER BASIN	-	SENTINEL GROUP - QUEEN'S S	TETON	0020395
44-33.52	N	110-51.42	W	LOWER GEYSER BASIN	-	SENTINEL GROUP - MOUND SPR	TETON	0020399
44-34.02	N	110-51.52	W	LOWER GEYSER BASIN	-	SENTINEL GROUP - UNNAMED S	TETON	0020398
44-34.05	N	110-51.48	W	LOWER GEYSER BASIN	-	SENTINEL GROUP - FLAT CONE	TETON	0020397
44-34.	N	110-51.53	W	LOWER GEYSER BASIN	-	SENTINEL GROUP - ROSETTE G	TETON	0020396
44-32.00	N	110-47.57	W	LOWER GEYSER BASIN	-	SURPRISE POOL	TETON	0020387
44-32.	N	110-53.	W	LOWER GEYSER BASIN	-	UNNAMED MUD POT	TETON	0020361
44-32.29	N	110-46.57	W	LOWER GEYSER BASIN	-	UNNAMED SPRING	TETON	0020371
44-32.	N	110-47.	W	LOWER GEYSER BASIN	-	UNNAMED SPRING	TETON	0020373
44-32.	N	110-47.	W	LOWER GEYSER BASIN	-	UNNAMED SPRING	TETON	0020372
44-31.58	N	110-47.48	W	LOWER GEYSER BASIN	-	UNNAMED SPRING	TETON	0020374
44-32.2	N	110-47.30	W	LOWER GEYSER BASIN	-	UNNAMED SPRING	TETON	0020375
44-31.	N	110-52.	W	LOWER GEYSER BASIN	-	UNNAMED STREAM VENT	TETON	0020357
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - ANGEL TERRACE	PARK	PARK	0020464	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - CAVERN TERRACE	PARK	PARK	0020470	
44-58.5	N	110-42.6	W	MAMMOTH HOT SPRINGS - CLEOPATRA SPRING	PARK	PARK	0020460	
44-58.5	N	110-42.6	W	MAMMOTH HOT SPRINGS - CLEOPATRA SPRING	PARK	PARK	0020459	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - CUP ID SPRING	PARK	PARK	0020471	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - HYMEN TERRACE	PARK	PARK	0020465	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - JUPITER TERRACE	PARK	PARK	0020467	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - MAIN TERRACE	PARK	PARK	0020466	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - MINERVA SPRINGS	PARK	PARK	0020473	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - NEW HIGILAND TERRACE	PARK	PARK	0020462	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - PALETTA TERRACE	PARK	PARK	0020461	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - UNNAMED SPRING	PARK	PARK	0020468	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - UNNAMED SPRING	PARK	PARK	0020463	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - UNNAMED SPRING	PARK	PARK	0020462	
44-58.	N	110-42.	W	MAMMOTH HOT SPRINGS - UNNAMED SPRING	PARK	PARK	0020472	
44-31.23	N	110-50.08	W	MIDWAY GEYSER BASIN - EXCELSIOR GEYSER	TETON	TETON	0020343	
44-32.33	N	110-50.53	W	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	TETON	TETON	0020356	
44-32.18	N	110-51.25	W	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	TETON	TETON	0020352	

44-32.18 N 110-51.27 W	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM TETON
44-32.15 N 110-51.10 W	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM TETON
44-32.18 N 110-51.25 W	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM TETON
44-32.33 N 110-50.53 W	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM TETON
44-31. N 110-50.	MIDWAY GEYSER BASIN - FLOOD GEYSER TETON
44-31. N 110-50.	MIDWAY GEYSER BASIN - FLOOD GEYSER TETON
44-31.2 N 110-50.0 W	MIDWAY GEYSER BASIN - INDIGO SPRING TETON
44-31.20 N 110-50.13 W	MIDWAY GEYSER BASIN - PRISMATIC LAKE TETON
44-30.50 N 110-48.42 W	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA TETON
44-30.50 N 110-48.42 W	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA TETON
44-30.58 N 110-49.18 W	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA TETON
44-30.49 N 110-48.42 W	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA TETON
44-30.57 N 110-49.50 W	MIDWAY GEYSER BASIN - UNNAMED CONE TETON
44-31. N 110-50.	MIDWAY GEYSER BASIN - UNNAMED SPRING TETON
44-43. N 110-43.	NORRIS GEYSER BASIN - "BATH-TUB" SPRING PARK
44-43. N 110-43.	NORRIS GEYSER BASIN - "BATH-TUB" SPRING PARK
44-43. N 110-43.	NORRIS GEYSER BASIN - BATHTUB SPRING PARK
44-43. N 110-43.	NORRIS GEYSER BASIN - BLACK GROWLER PARK
44-43. N 110-43.	NORRIS GEYSER BASIN - BLACK GROWLER PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - BLACK HERON CAULDRON PARK
44-44. N 110-43.	NORRIS GEYSER BASIN - CINDER POOL (NO. 17) PARK
44-43.80 N 110-42.00 W	NORRIS GEYSER BASIN - CONGRESS POOL PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - CORAL SPRING PARK
44-43.58 N 110-42.42 W	NORRIS GEYSER BASIN - ECHINUS GEYSER PARK
44-43. N 110-43.	NORRIS GEYSER BASIN - EMERALD SPRING PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - GABLE SPRING (NO. 32) PARK
44-43.56 N 110-42.40 W	NORRIS GEYSER BASIN - GEYSER NO. 27 PARK
44-43. N 110-43.	NORRIS GEYSER BASIN - GREEN DRAGON SPRING PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - IRIS SPRING (NO. 71) PARK
44-44. N 110-42.	NORRIS GEYSER BASIN - PEARL GEYSER PARK
44-43. N 110-43.	NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 24 PARK
44-44. N 110-43.	NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 70 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 1 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 15 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 18 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 19 PARK
44-43.75 N 110-42.47 W	NORRIS GEYSER BASIN - SPRING NO. 20 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 21 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 23 PARK
44-43. N 110-42.03 W	NORRIS GEYSER BASIN - SPRING NO. 25 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 30 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 33 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 4 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 5 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 6 PARK
44-43. N 110-43.	NORRIS GEYSER BASIN - SPRING NO. 61 PARK
44-44. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 62 PARK
44-44. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 68 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 7 PARK
44-43. N 110-42.	NORRIS GEYSER BASIN - SPRING NO. 9 PARK
44-43. N 110-41.98 W	NORRIS GEYSER BASIN - UNNAMED SPRING PARK
44-44. N 110-43.	NORRIS GEYSER BASIN - UNNAMED SPRING PARK
44-43. N 110-43.	NORRIS GEYSER BASIN - UNNAMED SPRING PARK
44-43. N 110-43.	NORRIS GEYSER BASIN - UNNAMED SPRING PARK

44-44.	N	110-43.	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020429
44-43.58	N	110-42.42	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020448
44-43.58	N	110-42.42	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020447
44-43.5	N	110-42.5	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020457
44-43.8	N	110-42.5	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020456
44-43.8	N	110-42.6	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020455
44-43.7	N	110-42.6	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020454
44-43.7	N	110-42.6	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020453
44-43.8	N	110-42.7	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020452
44-43.8	N	110-42.7	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020451
44-43.8	N	110-42.7	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020450
44-43.8	N	110-42.7	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020458
44-44.	N	110-43.	W	NORRIS GEYSER BASIN - UNNAMED STEAM VENT	PARK	0020437
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - UPPER GREEN DRAGON SPRING	PARK	0020443
44-44.	N	110-43.	W	NORRIS GEYSER BASIN - VERNILLION POOL	PARK	0020432
44-27.77	N	110-50.75	W	ORANGE GROUP - UNNAMED SPRING	TETON	0020287
44-21.68	N	110-50.00	W	PIPELINE CREEK SPRING	TETON	0020307
44-26.4	N	110-34.5	W	POTTS HOT SPRING BASIN - UNNAMED GEYSER	TETON	0020486
44-26.4	N	110-34.5	W	POTTS HOT SPRING BASIN - UNNAMED SPRING	TETON	0020487
44-21.1	N	110-48.0	W	SHOSHONE GEYSER BASIN - BLUE GLASS SPRING	TETON	0020474
44-21.18	N	110-47.54	W	SHOSHONE GEYSER BASIN - MINUTE MAN GEYSER	TETON	0020478
44-21.12	N	110-48.03	W	SHOSHONE GEYSER BASIN - TAURUS GEYSER	TETON	0020475
44-20.48	N	110-47.55	W	SHOSHONE GEYSER BASIN - UNION GEYSER	TETON	0020477
44-21.	N	110-48.	W	SHOSHONE GEYSER BASIN - UNNAMED SPRING	TETON	0020476
44-39.00	N	110-50.45	W	TERRACE SPRING	TETON	0020402
44-39.00	N	110-50.45	W	TERRACE SPRING	TETON	0020401
44-31.	N	110-50.	W	UNNAMED SPRING	TETON	0020340
44-27.53	N	110-49.45	W	UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020304
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020254
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - ARTEMISIA GEYSER	TETON	0020257
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - ARTEMISIA GEYSER	TETON	0020256
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - ARTEMISIA GEYSER	TETON	0020255
44-27.73	N	110-51.35	W	UPPER GEYSER BASIN - BLACK SAND POOL	TETON	0020293
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - BOTTOMLESS PIT	TETON	0020267
44-27.5	N	110-50.6	W	UPPER GEYSER BASIN - CASTLE GEYSER	TETON	0020286
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - CHINAMAN SPRING	TETON	0020268
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - CHINAMAN SPRING	TETON	0020269
44-28.50	N	110-50.00	W	UPPER GEYSER BASIN - DAISY GEYSER	TETON	0020277
44-28.50	N	110-50.00	W	UPPER GEYSER BASIN - DAISY SPRING	TETON	0020276
44-27.4	N	110-50.0	W	UPPER GEYSER BASIN - EAR SPRING	TETON	0020251
44-28.5	N	110-50.0	W	UPPER GEYSER BASIN - ECONOMIC GEYSER	TETON	0020291
44-28.5	N	110-50.0	W	UPPER GEYSER BASIN - JEWEL GEYSER	TETON	0020290
44-27.28	N	110-51.13	W	UPPER GEYSER BASIN - EMERALD POOL	TETON	0020297
44-27.7	N	110-49.5	W	UPPER GEYSER BASIN - GIANTESS GEYSER	TETON	0020249
44-28.20	N	110-51.52	W	UPPER GEYSER BASIN - HILLSIDE NO. 1	TETON	0020264
44-28.50	N	110-50.00	W	UPPER GEYSER BASIN - IRON SPRING	TETON	0020280
44-28.5	N	110-50.0	W	UPPER GEYSER BASIN - JEWEL GEYSER	TETON	0020284
44-28.5	N	110-50.0	W	UPPER GEYSER BASIN - MORNING GLORY POOL	TETON	0020285
44-28.05	N	110-50.32	W	UPPER GEYSER BASIN - OLD FAITHFUL GEYSER	TETON	0020298
44-27.63	N	110-49.38	W	UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM TETON	TETON	0020281
44-27.98	N	110-50.42	W	UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM TETON	TETON	0020319
44-28.42	N	110-50.45	W	UPPER GEYSER BASIN - PUNCH BOWL SPRING	TETON	0020318
44-29.25	N	110-51.95	W	UPPER GEYSER BASIN - PUNCHBOWL SPRING	TETON	0020274
44-28.25	N	110-51.95	W	UPPER GEYSER BASIN - PUNCHBOWL SPRING	TETON	0020273

44-28.48	N	110-51.15	W	UPPER GEYSER BASIN - SAPPHIRE SPRING		0020258	94.5
44-27.7	N	110-51.3	W	UPPER GEYSER BASIN - SPOUTER SPRING		0020294	92.5
44-28.50	N	110-50.00	W	UPPER GEYSER BASIN - SULFIDE SPRING		0020283	77.
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - TEAKETTLE SPRING		0020271	
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - TEAKETTLE SPRING		0020272	92.
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - THREE SISTERS SPRING		0020278	90.5
44-28.5	N	110-50.0	W	UPPER GEYSER BASIN - THREE SISTERS SPRING		0020279	
44-27.43	N	110-50.0	W	UPPER GEYSER BASIN - TOPAZ SPRING		0020270	
44-27.03	N	110-50.33	W	UPPER GEYSER BASIN - UNNAMED DRILL HOLE		0020282	
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020300	55.
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020299	63.
44-27.35	N	110-49.37	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020305	81.
44-27.58	N	110-49.07	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020303	90.
44-28.20	N	110-50.45	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020301	81.
44-27.35	N	110-49.37	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020306	63.
44-28.0	N	110-50.0	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020310	71.
44-28.0	N	110-50.0	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020312	
44-27.7	N	110-49.5	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020250	82.5
44-27.4	N	110-50.0	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020252	89.
44-28.50	N	110-50.00	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020289	91.
44-27.43	N	110-50.00	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020253	84.
44-28.20	N	110-50.45	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020302	
44-28.50	N	110-50.00	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020292	
44-28.25	N	110-51.95	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020275	84.
44-28.4	N	110-51.53	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020260	80.
44-28.44	N	110-51.52	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020261	76.
44-27.77	N	110-49.20	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020313	91.
44-28.0	N	110-50.0	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020311	75.
44-28.00	N	110-50.00	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020309	80.
44-27.53	N	110-49.46	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020317	64.
44-27.35	N	110-49.37	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020316	89.
44-27.67	N	110-49.63	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020315	75.
44-27.53	N	110-49.45	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020314	82.
44-27.50	N	110-50.00	W	UPPER GEYSER BASIN - UNNAMED SPRING		0020288	87.
44-28.43	N	110-51.53	W	UPPER GEYSER BASIN - WEST SPRING		0020259	80.
44-25.	N	110-34.	W	WEST THUMB GEYSER BASIN - ABYSS POOL		0020482	90.
44-25.	N	110-34.	W	WEST THUMB GEYSER BASIN - BLACK POOL		0020483	78.5
44-24.	N	110-34.	W	WEST THUMB GEYSER BASIN - EPHEDRA GEYSER		0020485	89.
44-24.	N	110-34.	W	WEST THUMB GEYSER BASIN - UNNAMED SPRING		0020484	84.1
44-25.	N	110-34.	W	WEST THUMB GEYSER BASIN - UNNAMED SPRING		0020481	
44-25.5	N	110-34.2	W	WEST THUMB GEYSER BASIN - UNNAMED SPRING		0020480	
44-24.65	N	110-23.78	W	YELLOWSTONE - CALCITE NO. 1		0020503	92.5
44-54.65	N	110-23.78	W	YELLOWSTONE - CALCITE NO. 2		0020505	89.4
44-54.65	N	110-23.78	W	YELLOWSTONE - CALCITE SPRINGS		0020502	
44-54.65	N	110-23.78	W	YELLOWSTONE - CALCITE SPRINGS		0020504	
44-42.78	N	110-44.67	W	YELLOWSTONE - CHOCOLATE POTS		0020506	51.
44-42.77	N	110-44.67	W	YELLOWSTONE - CHOCOLATE POTS		0020507	52.
44-45.53	N	110-25.85	W	YELLOWSTONE - DEVIL'S INKPOT		0020494	
44-45.53	N	110-25.85	W	YELLOWSTONE - DEVIL'S INKPOT		0020492	
44-45.53	N	110-25.85	W	YELLOWSTONE - DEVIL'S INKPOT		0020493	81.5
44-27.4	N	110-50.0	W	YELLOWSTONE - EAR SPRING		0075091	95.
44-31.23	N	110-50.08	W	YELLOWSTONE - EXCELSIOR SPRING		0075089	76.
44-32.30	N	110-47.02	W	YELLOWSTONE - FIREhole LAKE (LOWER)		0015081	93.
44-28.2	N	110-51.5	W	YELLOWSTONE - HILLSIDE (UPPER)		0075082	84.5

44-37.28 N 110-25.58 W	YELLOWSTONE - MUD VOLCANO	PARK	0020500 85.5
44-58. N 110-42.	YELLOWSTONE - NEW HIGHLAND	PARK	0073079 73.5
44-43. N 110-42.	YELLOWSTONE - NORRIS GEYSER BASIN - SPRING NO.	PARK	0020416
44-33.18 N 110-49.51 W	OJO CALIENTE SPRING (RIVER GROUP	TETON	0073087 95.
44-28.48 N 110-51.15 W	SAPPHIRE SPRING	TETON	0073090 95.
44-37.28 N 110-25.58 W	YELLOWSTONE - SULFUR POOL	PARK	0020501
44-39.00 N 110-50.45 W	YELLOWSTONE - TERRACE	TETON	0073080 66.
44-32.38 N 110-15.22 W	YELLOWSTONE - UNNAMED SPRING	PARK	0020499 86.1
44-32.48 N 110-15.35 W	YELLOWSTONE - UNNAMED SPRING	PARK	0020498 88.8
44-46.00 N 110-25.80 W	YELLOWSTONE - UNNAMED SPRING	PARK	0020497 88.
44-46.00 N 110-25.80 W	YELLOWSTONE - UNNAMED SPRING	PARK	0020496
44-46.00 N 110-25.80 W	YELLOWSTONE - UNNAMED SPRING	PARK	0020495
44-39.53 N 110-28.75 W	YELLOWSTONE - UNNAMED SPRING	PARK	0020491 87.
44-39.50 N 110-29.00 W	YELLOWSTONE - UNNAMED SPRING	PARK	0020490 70.6
44-39.50 N 110-28.93 W	YELLOWSTONE - UNNAMED SPRING	PARK	0020489 85.
44-39.50 N 110-28.93 W	YELLOWSTONE - UNNAMED SPRING	PARK	0020488 79.8
44-28.5 N 110-50.0 W	YELLOWSTONE - UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020308 87.

APPENDIX D

Sources for the records in the GEOTHERM sample file for Wyoming. Each reference is preceded by its abbreviated form (called CODE) used in the sample file (Table 1). Entries in this computer-generated appendix are sorted by CODE.

CODE = ALLEN AND DAY, 1935

ALLEN, E. T., AND DAY, A. L., 1935, HOT SPRINGS OF THE YELLOWSTONE NATIONAL PARK: CARNEGIE INSTITUTION OF WASHINGTON PUBLICATION NO. 466, 525 P.

CODE = BRECKENRIDGE AND HINCKLEY, 1978

BRECKENRIDGE, R. M. AND HINCKLEY, B. S., 1978, THERMAL SPRINGS OF WYOMING: WYOMING GEOLOGICAL SURVEY BULLETIN 60, 104 P.

CODE = GOOCH AND WHITFIELD, 1888

GOOCH, F. A., AND WHITFIELD, J. E., 1988, ANALYSES OF WATERS OF YELLOWSTONE NATIONAL PARK, WITH AN ACCOUNT OF THE METHODS OF ANALYSIS EMPLOYED: U.S. GEOLOGICAL SURVEY BULLETIN 47, 84 P.

CODE = GUNTER, 1973

GUNTER, B. D., 1973, AQUEOUS PHASE-GASES PHASE MATERIAL BALANCE STUDIES OF ARGON AND NITROGEN IN HYDROTHERMAL FEATURES AT YELLOWSTONE NATIONAL PARK: GEOCHIMICA ET COSMOCHIMICA ACTA, V. 37, NO. 3, P. 495-513.

CODE = GUNTER AND MUSGRAVE, 1966

GUNTER, B. D., AND MUSGRAVE, B. C., 1966, GAS CHROMATOGRAPHIC MEASUREMENTS OF GEOTHERMAL EMANATIONS AT YELLOWSTONE NATIONAL PARK: GEOCHIMICA ET COSMOCHIMICA ACTA, V. 30, NO. 11, P. 1175-118.

CODE = MAZOR AND WASSERBURG, 1965.

MAZOR, E., AND WASSERBURG, G. J., 1965, HELIUM, NEON, ARGON, KRYPTON AND XENON IN GAS EMANATIONS FROM YELLOWSTONE AND LASSEN VOLCANIC NATIONAL PARKS: GEOCHIMICA ET COSMOCHIMICA ACTA, V. 29, NO. 5, P. 443-454.

CODE = TRUESDALE AND FOURNIER, 1976

TRUESDALE, A. H. AND FOURNIER, R. O., 1976, CONDITIONS IN THE DEEPER PARTS OF THE HOT SPRING SYSTEMS OF YELLOWSTONE NATIONAL PARK, WYOMING: U. S. GEOLOGICAL SURVEY OPEN-FILE REPORT 76-428, 29 P.

CODE = WHITE AND WILLIAMS, 1975

WHITE, D. E. AND WILLIAMS, D. L., 1975, ASSESSMENT OF GEOTHERMAL
RESOURCES OF THE UNITED STATES-1975: U. S. GEOLOGICAL SURVEY
CIRCULAR 726, 155 P.